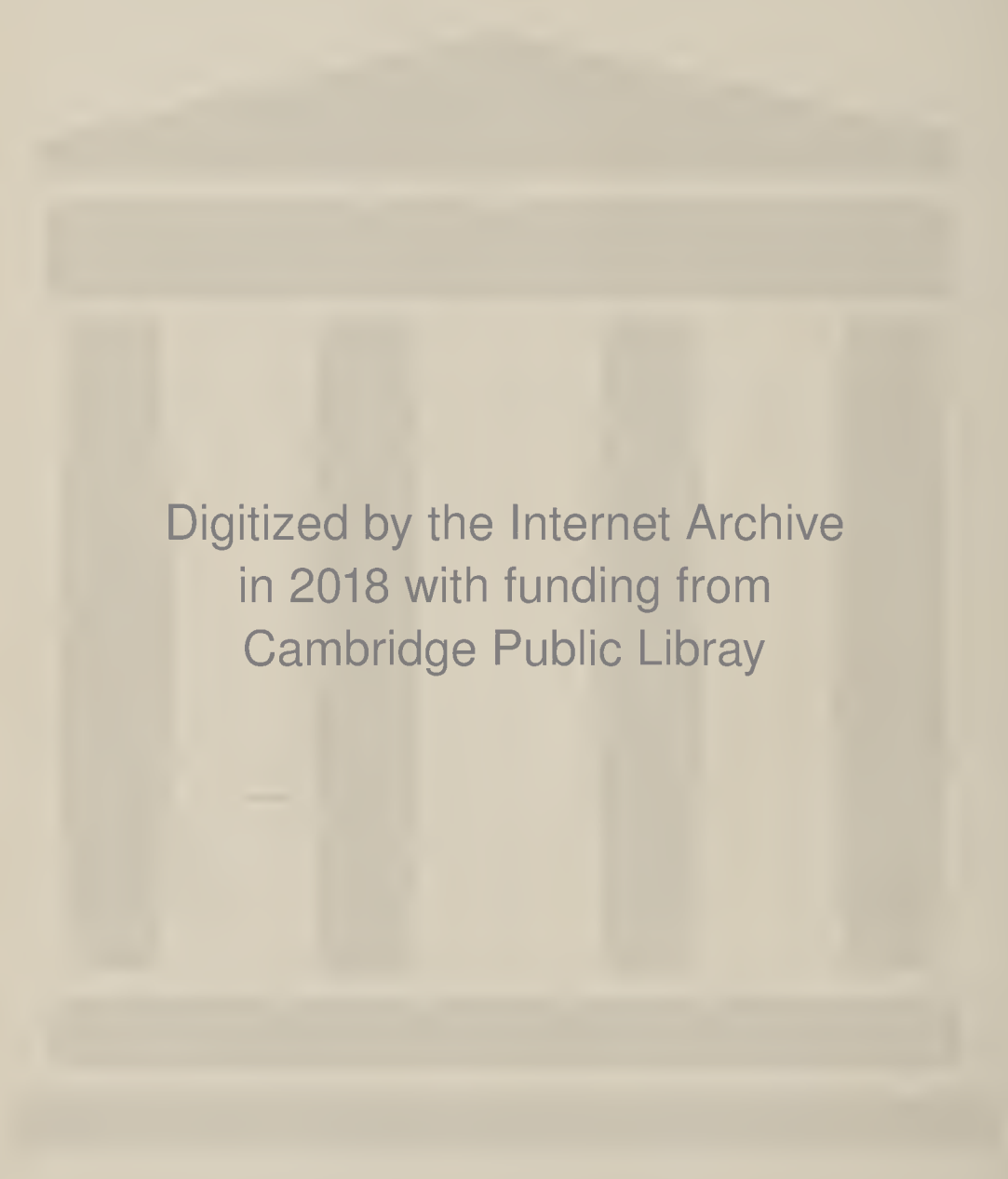




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City of Cambridge.

THE

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MAYOR'S ADDRESS

AT THE

Organization of the City Government,

AND THE

ANNUAL REPORTS

MADE TO

THE CITY COUNCIL.



CAMBRIDGE:

PRESS OF JOHN WILSON AND SON.

1875.

CITY OF CAMBRIDGE.

IN COMMON COUNCIL, *January 13, 1875.*

ORDERED, That fifteen hundred copies of the Mayor's Inaugural Address, together with the Annual Report of the Committee on Finance, made to the last City Council, with the accompanying documents, and such other documents as have been ordered to be printed by the City Council, be printed under the direction of the City Clerk, for general distribution.

Sent up for concurrence.

Attest:

J. WARREN COTTON, *Clerk.*

IN BOARD OF ALDERMEN, *January 13, 1875.*

Concurred.

Attest:

JUSTIN A. JACOBS, *City Clerk.*

January 14, 1875.

Approved.

ISAAC BRADFORD, *Mayor.*



ADDRESS
OF
HON. ISAAC BRADFORD,
MAYOR.

GENTLEMEN OF THE CITY COUNCIL:—

We are met to-day to inaugurate the duties of the coming year; and, as preliminary, it becomes my privilege, as it is an enjoyed honor, briefly to relate to you the present condition of municipal affairs, and submit certain views for your consideration.

The subject of finance, being of recognized superior importance, naturally challenges our first attention, and presents as follows:—

FINANCE.

Total appropriations for 1874	\$2,771,508.75
Total expenditures	2,485,299.66
Unexpended balance	\$286,209.09
There was a cash balance in the Treasury, Dec. 1, 1873, of	\$137,142.68
Existing balance, Dec. 1, 1874	144,403.12
Gain in cash balance	\$7,260.44

The total debt of the City is found to be as follows,
Dec. 1, 1874: —

Trust Funds	{ Daniel White Charity	\$5,000.00
	{ Dowse Institute	10,000.00
	{ Sanders Temperance Fund	10,000.00
City Bonds		2,798,000.00
Water Bonds		1,423,400.00
Sundry notes of the City		54,000.00
State and County tax for 1874		98,666.02
Unpaid approved bills		1,537.32
Total debt		<u>\$4,400,603.34</u>

As offset to this indebtedness: —

General Sinking Fund	\$212,466.04
Water Works Sinking Fund	251,598.68
Cash on hand	144,403.12
Total	<u>\$608,467.84</u>

Which amount, when subtracted from the amount of
total debt, leaves: —

Balance between liabilities and assets	\$3,792,135.50
Comparing this balance with the corresponding balance for Dec. 1, 1873	\$2,697,246.57
There is found for absolute increase of indebtedness during the year	\$1,094,888.93

The sundry notes of the City included in the above
exhibited debt are as follows: —

Coming due in year 1875	\$24,000.00
„ „ „ „ 1877	30,000.00
Total	<u>\$54,000.00</u>

The notes that come due the present year are thus
distributed: —

In May	\$800.00
„ November	23,200.00
Total	<u>\$24,000.00</u>

Further, there will also come due in May of the present year bonds of the city issued in the year 1865, on account of water loan, to the amount of \$186,400.00 ; making together a total sum of \$210,400.00, for the payment of which provision will have to be made.

During the past year there were negotiated \$1,606,000 worth of bonds, of which \$150,000 were Water Bonds, and the remainder divided as follows : —

10 year bonds.	{	Funding Loan	\$103,000.00
		Building	280,000.00
		Low-land	464,000.00
		Bridge	94,000.00
			\$941,000.00
20 year bonds.	{	Paving Loan	\$130,000.00
30 year bonds.	{	Sewer Loan	\$295,000.00
		Street Widening Loan	90,000.00
			\$385,000.00

Adding these latter to the number previously issued in conformity with the Sinking Fund Ordinance, there are shown to be outstanding a total of

\$1,308,000 ten year bonds,
253,000 twenty „ „
531,000 thirty „ „

all bearing 6 per cent rate of interest.

This funded debt, in the aggregate, will require that there be appropriated the present year a special sum of \$104,035.00 for the benefit of the Sinking Fund, being

\$66,000 more than was called for under the same heading a year ago; and an additional sum of \$72,000, to meet the extra demands of an increased interest account; both of which amounts must continue to be provided annually until the debt is extinguished.

The practical working of our Sinking Fund thus furnishes, as was designed, a criterion by which we are correctly to judge of the secure limit to which debt may be carried.

For, as an increase of ten year debt calls for 6 per cent annual assessment to the fund, and another 6 per cent for interest, it follows that for every \$100,000 of such debt, \$12,000 annually, for a period of ten years, must be appropriated,—the same being true in a lesser degree for twenty and thirty year debt, and which can only be met through an increase of taxes, or a corresponding increase of property valuation. So long as the valuation increases commensurately with the debt, a uniform rate of taxation may be maintained; but when the debt increases faster than the proper equivalent of valuation, then must the taxes surely advance, and a warning be felt, advising to stop.

WATER WORKS.

The extensions on Water Works for the past year have amounted to \$149,981.46, making the total cost of the works up to Dec. 1, 1874, to be \$1,399,396.53, for which bonds to the amount of \$1,423,400 have been issued.

This is nearly up to the statute limit, controlling the issuance of Water Bonds, the limit being \$1,500,000; and accordingly it will be necessary to petition the Legis-

lature for additional authority in this regard, if we would allow of a continued extension and improvement of the Works.

The Water Board ask us to petition for a limit of \$2,000,000.

The receipts from water takers for the year have been \$153,634.21, being \$7,500 more than the year before; while the excess of receipts above expenditures — which by statute is paid over to the Sinking Fund of the Water Works — has amounted to \$74,020.52, being an increase, over the like balance of 1873, of \$14,395.60.

A not inconsiderable part of this latter amount was derived immediately from the City in payment for water used in watering streets, and tariff upon fire hydrants at the rate of thirty dollars per hydrant; the last item alone amounting the past year to nearly \$14,000, and the number of hydrants constantly increasing. In this connection there suggests, whether some action looking to an abatement of charge may not justly be taken; for, if the sum proper to be passed to the Sinking Fund be computed on the same basis as regulates the general Sinking Fund of the City, it will be found that \$44,000 would have been sufficient, instead of \$52,000, that portion of the above-mentioned excess which was turned over to the Fund June 30, the end of the Water Works' fiscal year.

The Water Board have two petitions before the Legislature, one asking for —

“Police jurisdiction of Fresh Pond, in whatever town or city it may lie;” the other —

“For the privilege of taking water from Clematis and Beaver Brooks in Waltham, if it can be done without interfering with rights already granted to others.”

This latter object is prospective rather than immediate, and designed to secure a reserve to meet the future wants of the City, shall they grow, particularly the manufacturing ones, beyond the present capacity of our ponds to supply. That there is an increasing demand may be seen from the fact that 63,000,000 more gallons were pumped the past year than the year before, accounted for, it is true, in part by the larger amount required for watering streets, but nevertheless showing a really larger quantity consumed by water takers. The drought has affected the Pond somewhat, it being 16 inches lower now than it was a year ago ; which means a lessening in store of 80,000,000 gallons. However, the end of the suction pipe being still four feet below the water level assures that nothing less than an extraordinary continuance of the dry season can produce an emergency ; while the lowness of water, as affecting its purity, is of lesser consequence than formerly, tide-gates being set in Alewife Brook to prevent the back-set of drainage into the Pond.

The principal accomplishments of the past year, as reported by the Water Board, have been the completion and occupancy of the new engine-house at the Pond ; the placing an iron fence about the reservoir ; and the laying of a 20-inch main from the Common in Ward One, through Brighton Street, and a 24-inch main through Mount Auburn Street and Putnam Avenue to Pleasant Street, this latter portion for the purpose of fully supplying the Fourth Ward, and guaranteeing it against possible deprivation of water by reason of accident occurring. In the region of Mount Auburn and Brighton Streets, this new conduit was rendered imperative for protection against fire, the pipe previously depended upon being of only

4-inch capacity, and entirely inadequate to the enlarged demands resulting from building growth.

For the purpose of continuing a branch of this supply through Green Street to Sidney Street, and thence to the Columbia Street Main, the Water Board ask for a particular appropriation, representing that as iron is now cheap, the work may at this time be advantageously carried through. They also ask that appropriation be made for the following named purposes : —

1. “To connect Fresh, Little, and Spy Ponds by a suitable conduit, to make available the water supplied from those sources.”

2. “To clean out the borders of Fresh Pond near the pumping works, where the bottom of the Pond becomes exposed at low water.”

3. “To provide suitable buildings to accommodate the engineers and firemen, who are employed about the works all the time, and who should be on the ground where their services can be commanded at all times, night and day.”

These appropriations are asked for in addition to that required to meet the ordinary demands for extension. Being large in amount, I can scarcely recommend that they be made at this time, except possibly the one for connecting the ponds ; for I feel we should postpone all these larger undertakings, unless where absolutely necessary, until our debt be somewhat reduced by the operation of the Sinking Fund.

Shall it be argued that the water debt is not to be accounted as debt, because it takes care of itself, and presents an equivalent in the value of the works owned, I would reply that it does not differ in one respect from our other debt, which also presents this same feature of show-

ing equivalents in the value of sewers, sidewalks, buildings, and bridges possessed, and is placed upon precisely the same secure footing of having provision made for its future redemption.

No, it is surely debt which we are thus called upon to create, — debt which has hereafter to be paid ; and, if we are to cease making it in one direction, then, to be consistent, we must not hesitate to do the same wherever an opportunity occurs.

SCHOOLS.

The schools are in their usual flourishing condition, and furnish instruction to 7,816 scholars, under a corps of instructors numbering 183 ; making an increase during the year of 437 pupils, being the largest that has ever occurred in any one year, and sufficient of itself to fill one new grammar school-house ; likewise an increase of 11 teachers.

The expenditures have been as follows: —

For general instruction	\$147,807.59
Evening schools for adults	1,977.10
Care and repair of school-houses	62,132.56
New school-houses and alterations	43,184.57
Truant officers	5,085.65
Summing up a total of	\$260,187.47

The work of remodelling school-houses, begun in 1873, has been carried on until now it is believed that all of them are adapted to the health and comfort of the children attending, and to the successful prosecution of studies in accordance with the requirements of the system adopted.

There are, however, three of the older ones still left, where alterations might be made with advantage in the way of securing additional room. They are the Thorn-dike Grammar, Felton and Bridge Primaries. In the case of the first, it is estimated 100 new seats could readily be obtained; in that of the second, 200 seats; and, by raising the third one story, the growing wants of the "Lower Port" be fully and economically met. But not being of pressing importance, they may severally be allowed for the present to wait.

A single exception to this general completeness exists, perhaps, in the case of the High School building, which, owing to the great increase in the number of pupils of late, has necessitated the conversion of the basement into a class-room.

In view of this present crowded condition of the school, and of an expected further increase of the same with the growth of the City, it is recommended by the School Committee that immediate steps be taken for the division of the school into Classical and English Departments, and that the Classical Department be removed to a suitable building, which they ask may be erected in Ward One.

This is surely a matter for careful consideration, as the adoption of such a course would not only involve considerable expenditure in the first cost of a new building, but a permanent after charge in the maintenance of an independent corps of teachers; raising the question whether it be expedient, or within the range of justifiable taxation to provide and maintain a school separately devoted to the study of the classics. At least, I would suggest delay till after the next term admission; as, should there at that time develop an imperative want, no difficulty will be

experienced in making temporary arrangements, awaiting such permanent provision as shall then be determined upon.

Also, there is an outstanding request, made last year, that a new grammar school-house be built in the vicinity of Cambridge and Columbia Streets, to satisfy the wants represented to have there arisen; and a lot of land has accordingly been selected for the purpose at the corner of Columbia and Lincoln Streets. However, upon examination, it may appear to you advisable to postpone for this year its erection, and make instead the enlargement of the Felton school-house, just spoken of, and which would effect a temporary relief.

During the past year, land has been purchased, and recently a contract made at a cost of \$22,000, for the construction of a brick primary school-house on the corner of Oxford and Sacramento Streets. The plans for this have been drawn with especial reference to the accommodation as well of the Training School, which, being at present located on Putnam Avenue, must soon, it is foreseen, surrender its room to the increasing number of primary scholars who have a residence in that neighborhood.

Further, there has been re-established this season the Industrial School, required by law to be maintained, and which has been discontinued for the past two years for want of proper apartments. It is now permanently located in the Ward Four building, in Central Square. So numerous have been the applications for admission to it, that an additional room has had to be furnished for the accommodation of a part of the pupils attending; showing the great interest manifested in the same, and likewise developing the fact that, until the other new

building erecting in Ward One is completed, room with the city is an article as yet not fully supplied.

Withal, I may mention that the care and supervision of the schools having been placed in the hands of a gentleman long the Principal of one of our grammar schools, it is felt that thereby the vexed question of Superintendent has received a happy and most satisfactory settlement.

POLICE.

The expenditure for the Police Department for the year closed has amounted to \$71,710.84, including \$5,000 paid for telegraph, horses for police-van, and furniture for the new station; and there has been returned to the Treasury, through receipts from court fees to officers, the sum of \$4,853.00.

The number of arrests has been 1,924, — an increase of 386 from the year before; and the number of lodgers accommodated at the several station-houses, 3,062, — an increase of 1,143. The value of property stolen has amounted to \$6,246, and of that recovered \$3,185.

The force at present consists of sixty members, including the Chief, — it having been increased ten in number early last year, — and is felt to be quite effective. As a result of this increase, there has been gained a larger availability, thus avoiding almost entirely the employment of specials to fill the places of absent regulars, and, further, permitting the arrangement of two night reliefs, whereby the city is much more thoroughly guarded than it was before.

The occupancy of the new quarters in Central Square has formed an event in the records of the second Police District; and the knowledge that like provision is being

made in the new building in Brattle Square for the police of District One is not only agreeable to the officers themselves, but cannot prove otherwise than highly acceptable to the large number of citizens who, in one way or another, have occasion at times to visit that station. Besides, these two buildings referred to are designed to supply other and much needed purposes, and cannot in the end fail to receive a general sanction in accordance with the adage "that what is worth doing at all, is worth doing well."

The past year has seen the principal police stations connected by telegraph, using "Ander's Printer," which gives entire satisfaction. The cost of the whole was \$2,000. \$300 more will place an instrument in the Lock-up at the "Lower Port," at present unsupplied, connecting the same with the Central Station; which, from the successful working of what has been introduced, I recommend be done, as giving greater completeness to the system.

The Chief of Police calls attention to the necessity of ventilating the station in Ward Five, which can be done at an expense of a few hundred dollars; and he suggests that an ordinance be passed defining the qualifications of candidates for the Police Force, specially as regards the limits of age, which receives my indorsement. He further states the necessity of having two more officers appointed as sergeants of the night reliefs, which I leave to your decision.

The morale of the force is excellent, and nothing is known to exist detracting from a justly merited approbation.

FIRE DEPARTMENT.

The improvements made in the Fire Department the past year have been numerous, particularly in the matter

of alteration of houses, new ones provided, and the supplying of additional apparatus.

With the completion of the building in Central Square, apartments were furnished for the reception of Hook-and-Ladder Truck No. 1; thus removing it from its former location on Main Street, near Winsor Street, and leaving that engine-house, which has received proper and much-needed alterations, to the sole occupancy of Steamer Company No. 2. Alterations in the engine-house in Ward Five have also been made, by which cellar room has been excavated, and a new and convenient stable provided. A new supply hose-carriage has been placed in the Central Square building; and a new engine-house built at Atwood's Corner, in which one of the spare steamers has been placed, with a company organized. A steam-heater has been introduced into Engine-house No. 3, and three more are ordered for other houses. These are inexpensive appliances, and serve the valuable purpose of maintaining at all times a head of steam in the engines, thereby assuring effective service immediately upon arrival at fires.

The department consists of 5 steam fire-engines, 6 hose-carriages, 2 hook-and-ladder trucks, 4 fuel wagons, 21 horses, and 15,000 feet of hose; besides having one steamer, and one hose-carriage kept in reserve.

Some of the hose, having been in use for the past eight years, will soon have to be replaced by new; but, beyond this special expense, there appears to be nothing that will arise the present year to swell the amount required for the ordinary maintenance of the Department; while the belief is indulged that the means are now fully possessed for successfully coping with any but an unusually extensive conflagration.

The total expenditures for the year have amounted to \$97,355.90, of which sum \$24,929.43 was paid out for new building and alterations, \$7,500 for new apparatus and repairs, and \$3,500 for additions made to the fire-telegraph.

The total loss by fire reported during this period has amounted to \$200,000, upon which there was insurance to the extent of \$75,000.

In conclusion, I would state that the conduct and management of the Department is such as to merit the confidence so generally reposed in it by the citizens.

ENGINEERING.

The Department of Engineering has been maintained the past year at the moderate cost of \$6,090.49, including the salary of the City Engineer, with an unusually large amount of work performed. Under this head come the subjects of sewers and low lands, prolific in details.

SEWERS.

There have been constructed during the year 6.7 miles of sewers, running through seventy-four streets, in answer to petitions made, and the demands of public health.

This has been done at a cost of \$267,310.21; making the total number of miles of sewers in the city to be 54.4, and the total cost of the same \$761,827.07.

Among the year's number have been the Dublin Street main completed, with some of its connections built, and the Cambridge Street sewer relaid between Prospect Street and the Boston and Albany Railroad.

But by far the largest work done — and much the largest of the kind hitherto undertaken in the city — has been the successful laying of the Bridge Street trunk sewer, in obedience to legislative requirement. Ten feet in diameter, and three thousand feet in length, with a depth of cut varying from fifteen to thirty feet, it was constructed in the remarkably short time occurring between the months of April and November, receiving on completion a formal acceptance at the hands of the Commissioners appointed under the provisions of the above-mentioned act. This sewer, lying within our territory, forms the continuation of, and furnishes the outlet to, a similar sewer constructed in Somerville under the same legislative enactment; its object being the providing of drainage to the watershed of Miller's River, rendered necessary by reason of the filling up of the river for the abatement of nuisance.

Our portion cost \$156,508.64; that in Somerville \$88,496.62; making a total of \$245,005.26, — which amount is required to be apportioned between the two cities in the ratio of benefit conferred.

The subject is receiving the present attention of the Commissioners, and it is hoped their decision will return us a portion of our outlay; in which event the sum restored will be carried to the Sinking Fund, as offset to bonds issued.

Another, and quite as important a sewer as this last, has just been ordered, located mostly through Binney Street, at a cost of \$150,000.00, for the purpose of diverting the sewage now emptying into Broad Canal, and of carrying it direct to deep water.

This has been rendered imperative, not only on sanitary

considerations, but by reason also of an impending injunction restraining from further use of the canal ; and though the cost is to be large, and the hardship apparent, yet, when done, it will be a source of very considerable congratulation that all the more provoking causes of sewage nuisance have been corrected.

Through a decision of the Supreme Court, rendered last spring, it has been declared that the Board of Mayor and Aldermen alone possess the power to assess for sewers ; which they may do either lineally, by area, for remote benefit, or as often upon the same estate as they adjudge it to have received additional benefit, subject only to revision of the courts.

As a consequence of this decision, the sewer ordinance of 1873 is recognized to have no further binding effect upon the Board, and to have entirely lost its force. However, the late Board, being unwilling to disappoint the expectations of petitioners who had asked for sewers to be built under the impression that they were to be charged on the basis as previously announced, decided to conform to the ordinance, and accordingly ordered assessments at the rate of fifty cents the running front foot, amounting to \$32,723.12.

There are other assessments yet to be ordered, which I advise be also computed upon this same basis, as engaging the acceptance of the people in an eminent degree.

LOW LANDS.

The filling of low lands, begun in 1872, has been prosecuted continuously, until now all the inhabited districts of the kind are filled to grade, with the exception of a

portion of the Franklin Street one, to be completed the present year. The total expenditures on this work to date have amounted to \$610,555.11; and, when finished, there will have been expended entire about \$650,000, of which sum it is justly expected \$400,000 will be returned to the Treasury, after making proper allowance for the cost of filling streets and public lands. Assessments for the Washington Street district have just been laid, amounting to \$77,468.31; and for the Cambridge Street, Cowperthwait Street, Sparks Street, and Miller's River districts, are nearly ready to be laid.

To an owner within the first-named district, the privilege exists of having his assessment apportioned in five annual payments, amendment to this effect having been made by the last legislature to the statute of 1869, under which this particular filling was ordered. This privilege, however, — which must be availed of within thirty days after notice of assessment has been served, by making direct application to the Board of Mayor and Aldermen, — does not extend to the other districts, they having been filled under the statute of 1872, which differs from that of 1869 in permitting the establishment of one foot higher grade, and to which like amendment has not yet been made.

Therefore, with a view to equalizing the method of payment throughout the city, petition has been filed at the present session of the General Court for an extension of this same amendment, so as to cover the latter act, believing that relief will thereby largely ensue to those whose pecuniary circumstances are such as to embarrass their making an immediate settlement.

Private streets within these completed districts have all

been accepted by the City, thus relieving the abutters from the cost of their filling,—being the public's contribution to the betterment. One notable exception, however, exists to this intended generalness of relief, in the case of Dyke Street, a portion of which had been filled by owners abutting, in obedience to the orders as at first issued, prior to the City's undertaking the work upon the rest of the containing district; and it has been asked that return be made of the cost to these parties. This I feel to be only just; for the City, having engaged to pay for the raising of all travelled streets, should not advantage itself of a technicality resulting from a too commendable promptness, but rather consider that payment is due the same as if it were owing the City's contractor.

As before remarked, there is but one low-grade district the filling of which begun, is not quite completed. When this shall be completed, I feel that all further work of the kind by the City as agent should cease.

This, because the more pressing sanitary demands will then have been satisfied, and only unoccupied marsh lands be left standing below grade; which, as they are brought into market to be built upon, may be reached directly by orders from the Board of Health, forbidding the maintenance of cellars below a grade of thirteen feet. By pursuing this course, the burden will at once be placed upon owners, while the correlative matter of height of streets and adjoining lands will be left to regulate itself to this one prescribed condition, thereby avoiding for the future a repetition of the onerous experience of the present.

Above all, it is to be remembered that the Grade Act of 1872 was specially enacted "to provide for the abatement of nuisances and the preservation of the public health,"

and that any other than a strict application of its underlying purpose, which is the ensuring of a completer drainage, becomes a perversion of intent, arbitrary, and open to criticism.

STREETS.

There has been expended during the year, by the Street Department, for streets and paving, \$183,480.84; and for widening and extending streets, \$79,074.66. Sixty orders for sidewalks and crossings have been passed, and work completed; costing in all, including grading and damages paid for land taken, \$118,431.00.

Eighteen streets have been widened and laid out, twenty-seven accepted, and one hundred and thirty-seven graded in part or full.

52,000 feet of edgestones have been set, and 55,000 square yards of paving laid.

As an evidence of the steadiness with which petitions have been presented, it may be mentioned that there are remaining over, unacted upon, forty-eight for sidewalks and crossings, involving an estimated cost of \$45,000, besides an additional large number for street widenings and extensions.

These are liberally and influentially signed, and without doubt are desirable in end; yet, under the circumstance of our large debt, I feel they should be allowed to wait, and accordingly recommend that there be an entire suspension of all work of this nature for the ensuing year.

The Superintendent of Streets reports that there will be required this year an appropriation of \$90,000, singly for the care and repair of streets, including the raising of many of them more fully to grade, as in the case of North

Avenue, which needs to be crowned ; and another, \$15,000, to meet unpaid damages on streets that have already been widened.

He further reports that the streets are in fair condition, considering the constant disturbance to which they are subjected in the laying of sewers, water and gas pipes ; and presents a schedule of property belonging to his Department, valued at \$17,000.

There are outstanding assessments on sidewalks, yet to be collected, of \$20,000.

BRIDGES.

During the past year, repairs have been made upon all the bridges, with the exception of the Prison Point and Brookline ones, putting them in good condition, at an expense of \$6,851.19. The Prison Point Bridge awaits an order from the Harbor Commissioners directing its rebuilding, for the purpose of securing a wider draw ; and when done will cost from \$15,000 to \$25,000, to be divided between the two cities of Cambridge and Boston. Brookline Bridge needs replanking, and must be attended to this year ; for which, together with the ordinary and minor repairs on the other bridges, an appropriation of \$5,000 will be required.

Craigie Bridge, under control of the Bridge Commissioners, has been entirely rebuilt, and widened ; and the old flap draw replaced by a new pivot one, moved by steam-power. This has cost about \$150,000, of which our share is one-half. The care and maintenance of West Boston and Craigie Bridges for the last year has amounted to \$6,000.

ALMSHOUSE.

There has been expended on account of the Almshouse the past year the sum of \$70,562.97; and been derived from the sale of products, and other sources, \$18,784.55; leaving a balance of expenditure above receipts of \$51,778.42, which, when reduced by the expense incurred for repairs, \$6,101.56, and the further sum of \$7,700.00, — the cost of collection of house offal, which is a health measure imposed upon this Department to manage, — leaves a final balance of \$38,000.00, as actual expense of maintenance of the poor, including assistance rendered outside of the House.

The average number of inmates for the year has been 129, an increase of 28 over that of the year previous. This increase is due in part to the large number of boys under sentence from the courts for truancy and crime; a matter which of late has grown to be quite serious, particularly as relates to the care and expense of the youthful criminals who are sent to the Work-house under power of the statute.

Certain alterations of the building have been necessitated in consequence, and more enlarged ones may have to be made if the former ratio of gain continues.

The one important change of the year has been the relinquishment by the Board of Overseers of the Poor to the City Council of the stone ledge situated upon the Almshouse grounds.

This was the result of an opinion arrived at by the Board, that it was inexpedient longer to work the ledge chargeable to the appropriation for the Poor. The late

City Council, after discussion, determined upon the sale of a portion of it, which was accordingly done at public auction last month, realizing the sum of \$21,188.21, to be paid on time.

A new barn has been built, forming an addition to the old one, which has been repaired; and the building used for the reception of offal raised, with its surroundings improved. Steam-heating apparatus has been introduced into the House, thus avoiding the further use of stoves, and reducing the amount of fuel used, as well as securing greater safety from accident by fire.

For fuller information concerning this Department, I would refer you to the quite elaborate report of the Overseers.

CEMETERY.

The Commissioners of the Cemetery report the receipts for the year at \$11,925.30; and expenditures, \$13,088.30. This comparatively slight excess of expenditures is attributable to the heavy grading which it has been found necessary to have done for the development of the general plan of the Cemetery, in the building of a marginal carriage-road on the northerly side, and the special improvement of the grounds in the vicinity of the new Soldiers' Lot. As offset, there is obtained a large number of available lots, and an enhanced attractiveness of the whole.

The rather unsightly depression of land which exists directly in front of the Lodge, it is in contemplation to improve by filling in part, forming a pond in the centre with an encircling row of handsome and desirable lots; which, if decided upon, may call for an increased appropriation, to be doubly repaid in the after value of the section reclaimed.

The new Soldiers' Lot, begun in 1873, was finished last spring, and dedicated on May 30, the occasion of Memorial Day.

Occupying commanding ground, it is readily distinguishable; and all that is now needed, to complete the offering of the City to its heroic dead, is that a granite curb be placed enclosing it.

The Cemetery is constantly receiving new adornment, and presents an appearance highly creditable to the efforts of the Superintendent.

LAMPS.

It has cost, the past year, to light the streets, \$20,157.37; the principal thoroughfares having been kept lighted throughout the whole night, in continuation of the plan adopted in 1873 — and which is felt to give satisfaction, as assuring greater convenience and safety.

The Superintendent reports the whole number of lamps to be 709, of which 56 have been added during the year, 42 having been placed, at the expense of the city, in localities where the public protection greatly required them, but where abutters were either unable or unwilling to respond; the remainder paid for by petitioners themselves.

The Superintendent further reports that by encouraging competition he has reduced the price of the post and lantern from thirty dollars to twenty-five dollars, including the setting of the same.

His office is located in the new City Building in Ward 4.

DISPENSARY.

The establishment of a Medical Dispensary, which I had the honor to recommend a year ago, has taken form through the efforts of the Society of Physicians, furthered by the aid of citizens.

As organized, it consists of a general office, located in the City building at Central Square, open three times a week, on Mondays, Wednesdays, and Fridays, between the hours of 10 and 12 A.M., where are physicians in attendance who dispense advice and medicines gratuitously ; with an appointed physician in each ward, whose accepted duty it is at all times to visit the sick poor of his district without charge.

The estimated saving to the City will be from \$1,500 to \$2,000 annually, based upon the amount heretofore ordinarily disbursed by the Overseers of the Poor for this service.

The undertaking is already a success, and promises to be a larger.

GENTLEMEN : —

In conclusion, I would say that as citizens have very largely expressed themselves in the late election as being desirous of a curtailing of expenditures, and as their desires should at all times direct the action of the City Council, it properly becomes our part to recognize this expression, and to postpone absolutely and rigorously all new projects involving debt, particularly as relates to the laying out, widening, and extending of streets ; the setting of edgestones, and laying of sidewalks ; the building of

drains, and alteration of bridges, — in short, of every thing which may be deferred without positive injury to public health or safety; making a single exception in favor of the new school-house proposed, and completing, as a matter of course, all works ordered and begun. This the more naturally, as during the past few years so much has been done in fulfilment of the implied promises of former postponements, and in rectification of earlier misconceptions of the City's after growth and progress.

Another cause also exists for such action, to be found in the presence of a large national, State, county, and city debt, a prevailing depression of business, and a possible coming depreciation of values, — all uniting to challenge caution; and demanding of us that we make payment for what we owe, before contracting heavier liabilities to plague us, perhaps, hereafter with their burden.

Adopting this policy, and pursuing it to the end, we may transmit to our successors a record for economy, which though not endorsed of petitioners by reason of its rigor, will yet engage their respect, as they discern an elucidation of the truism, — petitions unanswered spare the public purse.

ISAAC BRADFORD.

CAMBRIDGE, Jan. 4, 1875.

ANNUAL REPORT

OF

THE COMMITTEE ON FINANCE.

THE Joint Standing Committee on Finance respectfully submits to the City Council its Annual Report for the year ending Nov. 30, 1874.

The total amount appropriated at the commencement of the year, as set forth by the Annual Supply Bill to defray the estimated expenses of the City, was \$2,420,508.75.

It was found expedient subsequently to appropriate the sum of \$351,000.00 for the following purposes : —

For sewer in Bridge Street	\$175,000.00
,, streets and paving	80,000.00
,, widening and extension of streets	40,000.00
,, filling low lands	56,000.00
Total	<u>\$351,000.00</u>
Total Appropriations for the year	2,771,508.75
,, Expenditures under Appropriations	<u>2,485,299.66</u>
Balance unexpended	\$286,209.09

The total expenditures for this year appear very large, and are in excess over those of last year by the amount of \$419,441.39.

This excess of expenditures over those of former years may be accounted for partly from the pressing demands of the citizens in certain localities for the abatement of certain nuisances that were becoming more and more intolerable, and more detrimental to the public health, by the continued accumulation of decaying and sewage matter, as year after year the population was becoming more dense. Also, the City Council, after careful consideration,

deeming it necessary that certain buildings should be erected, have ordered their erection. Also, the City Council have during the year, from time to time, considered that, although large sums were being expended, it was a matter of economy that certain improvements in our streets, such as laying out and widening, be done now, rather than to delay them to a future day, when it would naturally cost very much more to make the same improvements.

There is one item of expenditure which swells the total to a considerable extent, that was uncontrollable by either citizens or City Council. We speak now of the large sewer in Bridge Street, this alone costing an expenditure of about \$150,000.00.

There has also been a large sum of money expended on Craigie's Bridge, to the amount of about \$70,000.00.

It may be seen by the foregoing statements, that a large part of the expenditure over that of last year is owing either to work that was forced upon the City, or for unusual work that it would have been worse than folly to have left undone.

With these large and extraordinary expenditures staring us in the face, and presenting the appearance of extravagance, we would have you remember that from the policy the City is pursuing in regard to her improvements and the manner of paying for them, the cost of the improvements appears much larger at first sight than it really is; that is to say, if we consider what has been paid by the Treasurer as the cost of the improvements. To be sure, the money has been paid out; but in most cases there are large amounts due the City to be collected as Assessments and Betterments, which sums are all paid to the Commissioners of the Sinking Funds of the City.

RECEIPTS AND EXPENDITURES.

Balance of Cash on hand, Dec. 1, 1873 . . .	\$137,142.68
Receipts of Cash for the year	3,042,612.60
Total Cash Receipts	<u>\$3,179,755.28</u>
Total Expenditures during the year	<u>3,035,352.16</u>
Balance, Cash in Treasury, Dec. 1, 1874 . . .	\$144,403.12

SINKING FUND OF THE WATER WORKS.

The Fund was, June 30, 1873	\$187,685.66
Added during the year : —	
Interest on sundry Loans to City	2,858.21
Accrued Interest on Bonds sold	4,455.00
Interest on Fund	8,666.12
Amount from Water Rates	47,933.69
Total Fund, June 30, 1874	<u>\$251,598.68</u>

This Fund is invested as follows : —

Cambridge Water Loan Bonds	\$186,823.00
Temporary Loan to City	64,775.68
	<u>\$251,598.68</u>

SINKING FUNDS OF THE CITY OTHER THAN SINKING FUNDS
OF THE WATER WORKS.

These Funds were, Dec. 1, 1873	\$105,602.60
Added during the year : —	
Amount for Drain Assessments	23,804.59
„ „ Paving „	25,092.65
„ „ Betterments	8,260.12
„ „ Kent Street Bridge	342.06
Proceeds of sale of lands and buildings	5,284.02
For funding old Debt	10,000.00
„ „ Loan negotiated for ten years	21,720.00
„ „ „ „ twenty years	3,990.00
„ „ „ „ thirty years	2,190.00
Interest on Fund	6,180.00
Total Fund, Dec. 1, 1874	<u>\$212,466.04</u>

These Funds are invested as follows : —

Bonds of the City	\$192,700.00
Accrued Interest on same	4,859.67
Cash in hands of Commissioners	14,906.37
Total	<u>\$212,466.04</u>

ANALYSIS OF THE CITY DEBT.

Amount of City Debt, Dec. 1, 1873	\$3,127,677.51
Added during the year : —	
State and County Taxes	98,666.02
Bills approved and Interest due	1,537.32
City and Water Loan Bonds	1,606,000.00
	\$4,833,880.85
Deduct amount paid in 1874	433,277.51
Total City Debt, Dec. 1, 1874	\$4,400,603.34
Deduct City Debt, Dec. 1, 1873	3,127,677.51
Increase of Debt during year	\$1,272,925.83

CLASSIFICATION OF THE CITY DEBT.

Daniel White Charity	\$5,000.00
Dowse Institute Fund	10,000.00
Sanders Temperance Fund	10,000.00
Cambridge Water Loan Bonds outstanding . .	1,233,400.00
„ „ in hands of Trustees of Sinking Fund of Water Works . .	190,000.00
Cambridge City Bonds outstanding	2,603,000.00
„ „ in hands of Commissioners	195,000.00
State Tax	58,580.00
County Tax	40,086.02
Bills approved and Interest due	1,537.32
Notes of the City	54,000.00
Total	\$4,400,603.34

POLLS AND VALUATION OF ESTATES.

The following tables show the variation in the number of Polls, amount of Personal Property, value of Real Estate, and number of Dwellings in the City, for the years of 1873 and 1874, as taken from the Assessors' books made up on the 1st of May of each year : —

Polls and Valuation of Estates for 1873.

Ward.	No. of Polls.	Personal Estate.	Real Estate.	Total.	No. of Dwellings.
1	1,839	\$6,189,360	\$12,454,300	\$18,643,660	1,267
2	3,287	4,854,175	11,604,400	16,458,575	2,008
3	2,843	2,290,580	7,365,900	9,656,480	1,315
4	2,640	2,164,200	7,917,000	10,081,200	1,740
5	1,078	1,465,400	6,115,900	7,581,300	726
Total	11,687	\$16,963,715	\$45,457,500	\$62,421,215	7,056

Polls and Valuation of Estates for 1874.

Ward.	No. of Polls.	Personal Estate.	Real Estate.	Total.	No. of Dwellings.
1	1,844	\$6,268,440	\$12,917,700	\$19,186,140	1,342
2	3,414	5,300,801	12,881,000	18,181,801	2,079
3	2,789	1,254,330	7,789,200	10,043,530	1,331
4	2,792	2,352,200	8,981,700	11,333,900	1,811
5	1,144	1,357,200	6,474,100	7,831,300	820
Total	11,983	\$17,532,971	\$49,043,700	\$66,576,671	7,383

Respectfully submitted.

ISAAC BRADFORD,
FRANCIS H. WHITMAN,
WM. L. WHITNEY,
GEO. F. PIPER,
SAMUEL L. MONTAGUE,
EDMUND REARDON,
JOHN J. HENDERSON,
JOSEPH J. KELLY,
JAMES MELLEŃ, JR.

Committee
on
Finance.

DECEMBER 31, 1874.

REPORT

CONCERNING

THE ACCOUNTS OF THE TREASURER AND AUDITOR.

IN COMMITTEE ON FINANCE, *Dec. 31, 1874.*

THE books of the Treasurer and Auditor have been thoroughly examined by Mr. Watson Gore, the same competent accountant who so satisfactorily examined them the two years previous.

Mr. Gore has computed each and every item of the Treasurer's and Auditor's accounts to the end of the financial year, and declares them to be correct; and that the Treasurer's and Auditor's books agree in every particular, showing in the Treasury a balance of cash of \$144,403.12. Also, there are in the Treasurer's hands two thousand dollars of the Water Loan Bonds more than are called for by his accounts.

Your Sub-Committee feels that this examination has proved very satisfactory, not only to the government under which it is made, but that it must be a source of satisfaction to the citizens at large to know at the end of each year that their accounts are correct. Also, your Sub-Committee feels that it would be more satisfactory, were the accounts of the Water Board once a year examined in the same way; that is, by an expert, so that any mistake that might unknowingly become incorporated in the accounts in one year might not be extended on, year after year. Your Sub-Committee has authority to say that it is a great source of satisfaction to the Treasurer and Auditor that the citizens at large may know, at least once in a year, that they have done their duty in regard to keeping their accounts; and why should it not be to the Registrar?

F. H. WHITMAN,

Sub-Committee.

SCHEDULE OF EXPENDITURES

FOR

THE FINANCIAL YEAR ENDING NOVEMBER 30, 1874.

For Almshouse and Stone Ledge.

Salaries	\$3,391.65	
Supplies for the house	7,990.32	
Dry goods and clothing	1,821.80	
Sundry laborers	13,462.50	
Gas, fuel, and water	2,082.59	
Hay, grain, and meal	1,554.45	
Tools, hardware, &c.	900.82	
Assistance to poor out of the house . .	22,944.20	
Support of persons in State institutions	4,988.39	
Repairs and materials	6,101.56	
Gas-pipes, fixtures, &c.	1,028.60	
Other Expenses	4,296.09	
		\$70,562.97
Appropriation	\$60,000.00	
Additional Appropriation	12,000.00	
		\$72,000.00
Amount of Expenses	70,562.97	
Balance unexpended	\$1,437.03	

For Care and Repairs of Bridges.

Care of draws	\$966.17	
Sundry workmen	2,836.37	
Lumber, stone, and cement	976.85	
Sixth Street draw	1,547.87	
Alewife Bridge	252.70	
Other Expenses	271.23	
		\$6,851.19

Appropriation	\$12,000.00
Amount of Expenses	6,851.19
Balance unexpended	<u>\$5,148.81</u>

**For Care and Maintenance of West Boston and Craigie's
Bridges.**

Commissioner, salary	\$625.00	
Sundry persons	2,678.06	
Repairs and materials	1,567.39	
Gas-pipe and fitting	1,290.50	
Paving and materials	751.92	
Engine-house, boiler, and engine	1,305.63	
Rebuilding Craigie's Bridge	68,630.08	
Expenses of ferry-boat	2,976.04	
Gas	581.44	
Other Expenses	969.67	
	<u></u>	\$81,375.73

Appropriation	\$101,000.00
Amount of Expenses	81,375.73
Balance unexpended	<u>\$19,624.27</u>

For Care and Repairs of School-Houses.

Services of School Committee	\$866.62	
Rent of halls for school-rooms	887.00	
School furniture	10,297.08	
Pianos	2,178.50	
Gas and fuel	10,132.08	
Care of houses, fires, &c.	8,840.57	
Mats, dusters, &c.	1,410.16	
Repairs and materials	18,205.05	
Furnaces and repairs	1,142.96	
Books and stationery	6,181.59	
Other Expenses	1,990.95	
	<u></u>	\$62,132.56

Appropriation . . .	\$45,000.00
Additional Appropriation	17,132.56
	\$62,132.56
Amount of Expenses	62,132.56

For Care and Repairs of Water Works.

Superintendent, salary	\$2,500.00
Water Registrar, salary	2,000.00
Clerk of Water Board, salary	200.00
Assistance in office	1,724.04
Rent of office and shop	1,200.00
Sundry workmen	8,049.71
Repairs and iron-work	635.05
Fuel	10,672.00
Horse and keeping	418.12
Other Expenses	2,092.28
	\$29,491.20

Appropriation . . .	\$25,000.00
Additional Appropriation	4,500.00
	\$29,500.00
Amount of Expenses	29,491.20
Balance unexpended	\$8.80

For Cemeteries.

Superintendent, salary	\$1,500.00
Superintendent, old ground	12.00
Sundry workmen	9,354.92
Other Expenses	2,221.38
	\$13,088.30

Appropriation . . .	\$12,000.00
Additional Appropriation	1,088.30
	\$13,088.30
Amount of Expenses	13,088.30

For City Engineering.

City Engineer, salary	\$3,000.00	
Assistants	2,265.58	
Tapes and drawing materials	172.29	
Horse-keeping and car-fares	525.00	
Other Expenses	127.62	
		\$6,090.49
Appropriation	\$10,000.00	
Amount of Expenses \$6,090.49		
Transferred	3,000.00	
		9,090.49
Balance unexpended	\$909.51	

For Compensation of Secretary of School Committee.

Secretary	\$300.00
Appropriation	\$300.00
Amount of Expenses	300.00

For Dana Library.

Librarian, salary	\$650.00	
Assistants, salary	458.37	
Superintendent of Reading-room . . .	300.00	
Rent and care of rooms	1,032.76	
Furniture, gas-fixtures, &c.	223.65	
Books, papers, and stationery	1,482.00	
Other Expenses	982.76	
		\$5,129.54
Appropriation	\$4,600.00	
Additional Appropriation 529.54		
		\$5,129.54
Amount of Expenses	5,129.54	

For Discount on Bonds.

Appropriation	\$52,000.00
Transferred	25,886.07
Balance unexpended	\$26,113.93

For Evening Schools for Adults.

Instruction	\$1,726.50	
Other Expenses	250.60	
		\$1,977.10
Appropriation	\$2,100.00	
Amount of Expenses	1,977.10	
Balance unexpended	\$122.90	

For Extension of Water Works.

Sundry workmen	\$14,228.45	
Pipes and freight	48,458.74	
Pump and boilers	11,588.36	
Plans for engine-house	1,807.92	
Building engine-house	22,467.03	
Coal shed	6,079.40	
Fence at reservoir	2,416.66	
Grading and filling over sewer	17,073.91	
Conduit	4,956.97	
Hydrants, gates, meters, iron-work, &c.	12,034.35	
Lead and packing	3,829.24	
Other Expenses	5,040.43	
		\$149,981.46
Appropriation	\$150,000.00	
Amount of Expenses	149,981.46	
Balance unexpended	\$18.54	

For Filling Low Lands.

Miller's River District	\$93,754.13	
Franklin Street District	60,578.52	
Cambridge Street District	51,037.94	
Cowperthwaite Street District	36,013.13	
Sparks Street District	18,403.76	
Sidney Street District (in part)	1,049.72	
Putnam Avenue District	15,105.40	
Amount carried forward	\$275,942.60	

Amount brought forward . .	\$275,942.60	
Webster Avenue District	1,888.21	
Lilac Court	2,938.73	
Binney lands	11,174.80	
Bent lands	1,474.84	
Engineering	1,455.00	
Pipes, cement, &c.	886.80	
		\$295,760.98
Appropriation . .	\$237,000.00	
Additional Appropriation	58,760.98	
		\$295,760.98
Amount of Expenses	295,760.98	

For Fire Department.

Chief Engineer, salary	\$1,200.00	
Assistant Engineers, salaries	1,665.00	
Clerk of Engineers, salary	50.00	
Services of members	34,899.49	
Land and house, Inman Street	11,300.00	
Alterations of houses	13,629.43	
Steamer	4,250.00	
Hook-and-ladder trucks	3,231.72	
Horses	2,200.00	
Hay, grain, and meal	3,009.69	
Repairs and materials	4,761.23	
Harnesses and repairs	1,015.47	
Hose and repairs	486.93	
Expenses of fire alarm	5,471.72	
Fuel and gas	2,723.41	
Other Expenses	7,461.81	
		\$97,355.90
Appropriation . .	\$87,000.00	
Additional Appropriation	10,360.90	
		\$97,360.90
Amount of Expenses	97,355.90	
		\$5.00
Balance unexpended		\$5.00

For Hopkins Fund.

Appropriation	\$1,300.00
Transferred to "Instruction in Public Schools," towards salary of Clas- sical Teacher in High School.	

For Incidental Expenses.

Legal services and expenses	\$7,896.69
Settlement of claims	4,092.68
Somerville tax-bill	1,102.50
Belmont tax-bill	95.00
Printing and advertising	5,879.19
Books, stationery, and stamps	6,176.68
Recording births, deaths, and marriages	876.05
Treasurer, for clerical assistance	1,492.50
City Clerk, for clerical assistance	1,500.00
Page of Common Council	50.00
Assistant Assessors, services	684.00
Abstract of conveyances	268.54
Distributing tax-bills, &c.	356.50
Taxes and Assessments refunded	19,726.47
Services of Ward Officers	125.00
Rent, repairs, and expenses of ward-rooms	1,557.88
Sealer's assistants and rent of office	334.96
Rent of armory	400.00
Expenses of Decoration Day	2,482.57
Expenses of funeral of Sumner	230.58
Alterations and repairs at City Hall	8,614.71
Expenses at City Hall	4,813.84
Furniture and repairs at City Hall	5,383.87
Horse-hire and car-fares	2,569.27
Paving	498.70
Dredging Broad Canal	6,639.50
Water for fire hydrants and reservoirs	14,665.00
Expenses of Health Department	4,725.16
Other Expenses	4,527.89
	\$107,765.73

Appropriation . . .	\$80,000.00
Additional Appropriation	27,765.73
	\$107,765.73
Amount of Expenses	107,765.73

For Instruction in Public Schools.

Salary of Superintendent	\$975.00
Salaries of Teachers	146,416.74
	\$147,391.74

Appropriation . . .	\$144,200.00
Additional Appropriation	3,191.74
	\$147,391.74
Amount of Expenses	147,391.74

For Interest and Bank Discounts.

Interest on City Debt	\$203,422.03
Sundry banks, &c., on temporary loans	16,306.96
	\$219,728.99

Appropriation	\$232,000.00
Amount of Expenses	219,728.99

Balance unexpended \$12,271.01

For Lighting Streets.

Superintendent of Lamps, salary . .	\$400.00
Gas	11,874.03
Fluid, matches, &c.	187.79
Care of lamps and lighting	5,042.26
Posts, lanterns, and repairs	2,464.02
Other Expenses	189.27
	\$20,157.37

Appropriation	\$22,000.00
Amount of Expenses	20,157.37

Balance unexpended \$1,842.63

For New School-Houses and Alterations.

Alterations in Allston School-house .	\$3,431.96	
Alterations in Shepard School-house .	17,984.42	
Alterations in Sargent School-house .	2,917.64	
Alterations in Webster School-house .	5,438.67	
Alterations in Willard School-house .	2,578.27	
Other alterations	202.50	
Plans	1,390.00	
Land for School-house	7,882.80	
		\$41,826.26

The following sum was charged to and paid from
this appropriation : —

Fitting up and furnishing in new building in Ward Four	1,358.31
	\$43,184.57

Appropriation . .	\$71,000.00
Additional Appropriation	3,000.00
	\$74,000.00
Amount of Expenses	43,184.57
Balance unexpended	\$30,815.43

For Payment of City Debt.

City Bonds and Notes	\$328,800.00
Appropriation	\$328,800.00
Amount of Expenses	328,800.00

For Police and Watch.

Chief of Police, salary	\$2,000.00
Services of policemen	61,458.00
Care of Police Court-room	100.00
Gas and fuel	833.00
Repairs and materials	822.27
Supplies	188.34
Ventilating Station in Ward Three .	713.31
Amount carried forward	\$66,114.92

Amount brought forward . . .	\$66,114.92	
Police telegraph	1,822.66	
Horses	475.00	
Boarding horses and horse-hire . . .	717.50	
Other Expenses	895.27	
Furniture at Station in Ward Four .	1,642.14	
Other Expenses at same	43.35	
		\$71,710.84
Appropriation	\$75,000.00	61 458
Amount of Expenses	\$71,710.84	102.52
Transferred	3,000.00	
		74,710.84
Balance unexpended	\$289.16	

For Police Court-Room, &c., Ward One.

Plans	\$1,500.00	
Mason work	9,000.00	
Carpenter's work	3,000.00	
Water-pipe, &c.	141.60	
		\$13,641.60
Appropriation	\$75,000.00	
Amount of Expenses	13,641.60	
Balance unexpended	\$61,358.40	

For Public Squares.

City Forester, services	\$1,000.00	
Labor	965.80	
Expenses of flags and flag-staffs . .	295.75	
Trees and tree-guards	85.92	
Settees for Common	70.00	
Other Expenses	458.01	
		\$2,875.48
Appropriation	\$2,500.00	
Additional Appropriation	375.48	
		\$2,875.48
Amount of Expenses	2,875.48	

For Salaries of City Officers.

Mayor	\$2,500.00	
Treasurer	3,000.00	
City Clerk	2,000.00	
Auditor of Accounts	1,000.00	
City Solicitor	1,400.00	
Clerk of Committees	1,500.00	
Clerk of Common Council	300.00	
Board of Assessors	6,000.00	
Inspector of Milk	200.00	
Sealer of Weights and Measures	500.00	
Messenger	1,500.00	
		\$19,900.00
Appropriation	\$20,000.00	
Amount of Expenses	19,900.00	
Balance unexpended	\$100.00	

For Scientific Department of High School.

Chemicals, &c.		\$103.95
Appropriation	\$100.00	
Additional Appropriation	3.95	
		\$103.95
Amount of Expenses		103.95

For Sewers and Drains.

Building and repairing sewers and cess-		
pools	\$30,507.33	
Amount paid for labor	9,587.84	
Drain-pipe and laying	59,538.91	
Bricks, stone, lumber, &c.	4,361.09	
		\$103,995.17
Appropriation	\$126,000.00	
Amount of Expenses	103,995.17	
Balance unexpended	\$22,004.83	

For Sewer in Bridge Street.

Contractor for sewer	\$150,865.71	
Engineering	812.50	
Paving and materials	2,983.67	
Other Expenses	270.50	
		\$154,932.38
Appropriation	\$175,000.00	
Amount of Expenses	154,932.38	
Balance unexpended	\$20,067.62	

For Sinking Fund of Water Works.

Amount paid Trustees of Fund	\$52,388.69	
Appropriation	\$40,000.00	
Additional Appropriation 12,388.69		
		\$52,388.69
Amount of Expenses	52,388.69	

For Sinking Funds.

Appropriation	\$132,000.00	
Transferred	61,697.54	
Balance unexpended	\$70,302.46	

[By the recent ordinance, the Treasurer pays over to the Trustees of the Fund, without entry in the books of the Auditor. See "Treasurer's Account."]

For Streets and Paving.

Superintendent of Streets, salary	\$2,000.00	
Amount paid for labor	52,992.32	
Paving	73,747.61	
Brick, gravel, stone, &c.	42,480.82	
Horses	1,800.00	
Horse-shoeing and iron-work	1,825.19	
Hay, grain, and meal	5,221.76	
Carts	407.50	
Railroad track	770.34	
Other Expenses	2,235.30	
		\$183,480.84

Appropriation . . .	\$102,000.00	
Additional Appropriation	81,480.84	
		\$183,480.84
Amount of Expenses		183,480.84

For Supply Account of Water Works.

Sundry workmen	\$4,954.37	
Supplies	6,647.05	
Other Expenses	1,747.81	
		\$13,349.23

Appropriation	\$18,000.00	
Amount of Expenses	\$13,349.23	
Transferred	4,500.00	
		17,849.23

Balance unexpended	\$150.77
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For Text-Books for High School.

Books	\$11.90
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Appropriation	\$100.00	
Amount of Expenses	11.90	

Balance unexpended	\$88.10
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For Truant Officers.

Services of officers	\$5,041.85	
Other Expenses	43.80	
		\$5,085.65

Appropriation	\$5,500.00	
Amount of Expenses	5,085.65	

Balance unexpended	\$414.35
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For Volunteers and their Families.

Amount paid to soldiers' families . . .	\$21,000.00
Appropriation . . . \$20,000.00	
Additional Appropriation 2,000.00	
	\$22,000.00
Amount of Expenses	21,000.00
Balance unexpended	\$1,000.00

For Ward-Room, &c., Ward Four.

Contractors	\$42,692.00
Carpenters' work	1,171.22
Mason work	719.02
Heating apparatus	6,692.67
Gas-pipe and fixtures	1,274.99
Ventilator	235.00
Other Expenses	20.00
	\$52,804.90
Appropriation \$52,000.00	
Additional Appropriation 804.90	
	\$52,804.90
Amount of Expenses	52,804.90

[See "New School-houses and Alterations."]

For Washington Street Improvement.

Building catch-basins	\$2,007.75
Stone	400.00
Damages	601.00
	\$3,008.75
Appropriation	\$3,008.75
Amount of Expenses	3,008.75

For Watering Streets.

Superintendent, salary	\$300.00
Paid for watering	15,208.00
Carts and repairs	5,273.87
Other Expenses	27.93
	\$20,809.80

Appropriation	\$22,000.00
Amount of Expenses	20,809.80
Balance unexpended	<u>\$1,190.20</u>

For Widening and Extension of Streets.

Damages	\$79,074.66
Appropriation	\$50,000.00
Additional Appropriation	40,000.00
	<u>\$90,000.00</u>
Amount of Expenses	79,074.66
Balance unexpended	<u>\$10,925.34</u>

RECAPITULATION OF EXPENDITURES.

	Original Appropriations.	Added subsequently.	Subtracted subsequently.	Appropriations as altered.	Amount of Expenditures.	Balances Unexpended.
Almshouse	\$60,000.00	\$12,000.00		\$72,000.00	\$70,562.97	\$1,437.03
Care and Repairs of Bridges	12,000.00			12,000.00	6,851.19	5,148.81
Care, &c., W. Boston and Craigie's Bridges	101,000.00			101,000.00	81,375.73	19,624.27
Care and Repairs of School-houses	45,000.00	17,132.56		62,132.56	62,132.56	
Care and Repairs of Water Works	25,000.00	4,500.00		29,500.00	29,491.20	8 80
Cemeteries	12,000.00	1,088 30		13,088.30	13,088.30	
City Engineering	10,000.00		\$3,000 00	7,000 00	6,090.49	909.51
Compensation of Secretary of School Committee	300.00			300 00	300.00	
Dana Library	4,600.00	529.54		5,129.54	5,129.54	
Discount on Bonds	52,000.00		25,886.07	26,113.93		26,113.93
Evening Schools for Adults	2,100.00			2,100.00	1,977.10	122.90
Extension of Water Works	150,000.00			150,000 00	149,981.46	18.54
Filling Low Lands	237,000.00	58,760.98		295,760.98	295,760.98	
Fire Department	87,000.00	10,360.90		97,360 90	97,355.90	5.00
Hopkins Fund	1,300 00		1,300 00			
Incidental Expenses	80,000.00	27,765.73		107,765 73	107,765.73	
Instruction in Public Schools	144,200.00	3,191.74		147,391 74	147,391.74	
Interest and Bank Discounts	232,000.00			232,000.00	219,728.99	12,271.01
Lighting Streets	22,000.00			22,000.00	20,157.37	1,842.63
New School-houses and Alterations	71,000.00	3,000.00		74,000.00	43,184.57	30,815 43
Payment of City Debt	328,800.00			328,800.00	328,800 00	
Police and Watch	75,000 00		3,000 00	72,000.00	71,710.84	289.16
Police Court Room, &c., Ward One	75,000 00			75,000.00	13,641.60	61,358 40
Public Squares	2,500.00	375.48		2,875.48	2,875.48	
Salaries of City Officers	20,000.00			20,000.00	19,900.00	100.00
Scientific Department of High School	100.00	3.95		103 95	103.95	
Sewers and Drains	126,000.00			126,000.00	103,995 17	22,004.83
Sewer in Bridge Street		175,000.00		175,000.00	154,932.38	20,067.62
Sinking Fund of Water Works	40,000 00	12,388.69		52,388.69	52,388.69	
Sinking Funds	132,000 00		61,697.54	70,302.46		70,302 46
Streets and Paving	102,000.00	81,480.84		183,480.84	183,480.84	150.77
Supply Account of Water Works	18,000.00		4,500.00	13,500.00	13,349.23	88.10
Text-Books for High School	100.00			100.00	11.90	414.35
Truant Officers	5,500.00			5,500.00	5,085.65	1,000 00
Volunteers and their Families	20,000.00	2,000.00		22,000.00	21,000.00	
Ward Room, &c., Ward Four	52,000.00	804.90		52,804.90	52,804.90	
Washington Street Improvement	3,008.75			3,008.75	3,008.75	
Watering Streets	22,000.00			22,000.00	20,809.80	1,190.20
Widening and Extension of Streets	50,000.00	40,000.00		90,000.00	79,074.66	10,925.34
Amount of Appropriations	\$2,420,508.75			\$2,771,508.75	\$2,485,299.66	\$286,209.09
Amount of Expenditures				2,485,299.66		
Balances unexpended				\$286,209.09		

The appropriation for Hopkins Fund was transferred to Instruction in Public Schools. The creation of a City Debt of \$351,000 was authorized for certain appropriations subsequent to the annual appropriations, namely, \$175,000; Streets and Paving, \$80,000; Widening and Extension of Streets, \$40,000; Filling Low Lands, \$56,000.

IN ACCOUNT WITH THE CITY OF CAMBRIDGE.

Cr.

1873.
Dec. 1.

By paid State of Massachusetts, State Tax	\$65,902.50
" " Balance of Bank Tax for 1873	4,919.02
" County of Middlesex, County Tax	37,544.41
" Sundry persons, per Mayor's Drafts and Orders	1,936,189.25
" " Interest Temporary Loan	16,306.96
" " Permanent Loan	203,422.03
" " City Debt	328,800.00
" " and Institutions, Temporary Loan	340,621.95
" Commissioners Sinking Funds of the City	100,683.44
Bills Receivable, John Hillery's Note	957.50
Balance on hand	144,403.12

\$3,179,750.18
JOSEPH WHITNEY, *Treasurer.*

Mar. 20, 1873. July 1, 1874.	6	Funding Loan: Cambridge City Bonds. . .	\$215,000.00 100,000.00	April 1, 1883. July 1, 1884.	Oct. 1, 1874.
Mar. 20, 1873. July 1, 1874.	6	Paving Loan: Cambridge City Bonds . . .	100,000.00 130,000.00	July 1, 1893. July 1, 1894.	July 1, 1874.
July 1, 1873. July 1, 1874.	6	Sewer Loan: Cambridge City Bonds . . .	136,000.00 295,000.00	July 1, 1903. July 1, 1904.	July 1, 1874.
July 1, 1873. July 1, 1874.	6	Street Widening Loan: Cambridge City Bonds	10,000.00 90,000.00	July 1, 1903. July 1, 1904.	July 1, 1874.
July 1, 1873. April 1, 1874.	6	Building Loan: Cambridge City Bonds. . .	119,000.00 198,000.00	July 1, 1883. April 1, 1884.	July 1, 1874. Oct. 1, 1874.
July 1, 1873.	6	Street Loan: Cambridge City Bonds. . .	13,000.00	July 1, 1893.	July 1, 1874.
July 1, 1873.	6	Land Loan: Cambridge City Bonds . . .	10,000.00	July 1, 1893.	July 1, 1874.
July 1, 1872. July 1, 1873. April 1, 1874. Oct. 7, 1874.	6	Low Land Loan: Cambridge City Bonds . .	15,000.00 271,000.00 240,000.00 56,000.00	July 1, 1882. July 1, 1883. April 1, 1884. Oct. 1, 1884.	July 1, 1874. July 1, 1874. Oct. 1, 1874.
July 1, 1874.	6	Bridge Loan: Cambridge City Bonds . . .	94,000.00	July 1, 1884.	
Oct. 1, 1863. June 1, 1858. Oct. 8, 1864.	6	Trustees Daniel White Charity	5,000.00		Oct. 1, 1874.
	6	Trustees Dowse Institute Fund	10,000.00		June 1, 1874.
	6	Trustees Sanders Temperance Fund	10,000.00		Oct. 8, 1874.
		State Tax	58,580.00	Dec. 1, 1874.	
		County Tax	40,086.02	Dec. 31, 1874.	
			98,666.02		
			\$4,399,066.02		

REPORT

OF THE

COMMISSIONERS OF THE SINKING FUNDS OF THE CITY.

THE undersigned, Commissioners of the Sinking Funds of the City, respectfully submit the following Report:—

Amount of the Funds Nov. 30, 1873 \$105,602.60

Amount of Drain Assessments received

during the year \$23,804.59

Amount of Paving Assessments received

during the year 25,092.65

Amount of Betterment Assessments re-

ceived during the year 8,260.12

Amount of Kent Street Bridge Assess-

ments received during the year . . . 342.06

Amount of proceeds of sales of land and

buildings during the year 5,284.02

On account of outstanding Ten-year

Bonds, six per centum 21,720.00

On account of outstanding Twenty-year

Bonds, three per centum 3,990.00

On account of outstanding Thirty-year

Bonds, one and one-half per centum . 2,190.00

On account of Funded Debt of the City 10,000.00

Interest on Fund 6,180.00

106,863.44

\$212,466.04

The Funds are invested as follows : —

Bonds of the City of Cambridge	. .	\$192,700.00
Accrued interest on same to Nov. 30,		
1874		4,859.67
Cash		14,906.37
		\$212,466.04

ISAAC BRADFORD,	} <i>Commissioners of the Sinking Funds of the City.</i>
JOS. WHITNEY,	
WM. L. WHITNEY,	
GEORGE F. PIPER,	
LEWIS HALL,	
H. R. HARDING,	

CAMBRIDGE, Jan., 1875.

REPORT

OF THE

TRUSTEES OF THE SINKING FUND OF THE CAM- BRIDGE WATER WORKS.

THE undersigned, Trustees of the Sinking Fund of the Cambridge Water Works, respectfully submit the following Report:—

Amount of Fund, June 30, 1873	\$187,685.66
Received of Registrar for rates, supplies, &c., for the year	\$161,258.98
Less amount paid for care, repairs, &c. . . .	\$39,801.29
Interest on Water Bonds	73,524.00
	113,325.29
	47,933.69
Interest on sundry temporary loans to the City	2,858.21
Accrued interest on Water Bonds sold	4,455.00
Interest on Fund	8,666.12
	\$251,598.68
Accrued interest on Fund	4,604.50
	\$256,203.18

The Fund is invested as follows :—

Cambridge Water Bonds	\$189,823.00
Temporary Loan to the City	61,775.68
	\$251,598.68

ISAAC BRADFORD,	}	<i>Trustees of the Sinking Fund of the Water Works.</i>
GEORGE F. PIPER,		
JOS. WHITNEY,		

REPORT

OF THE

COMMISSIONERS OF THE CAMBRIDGE CEMETERY.

To the City Council:—

THE Commissioners of the Cambridge Cemetery herewith submit their Twentieth Annual Report, for the year ending Nov. 30, 1874.

The receipts for the year have been as follows:—

Cash received for burial lots	\$8,703.00	
„ „ „ care of lots	1,999.30	
„ „ „ burial fees	1,066.00	
„ „ „ hay	87.00	
„ „ „ sedge grass	15.00	
„ „ „ wood	55.00	
Total		\$11,925.30

The expenditures for the year have been as follows:—

Superintendent's salary	\$1,500.00	
Sundry workmen	9,354.92	
Superintendent of old grounds, Ward		
One	12.00	
Other expenses	2,221.38	
Total		\$13,088.30
Excess of expenditures over receipts .		\$1,163.00
Total appropriation for the year . . .	\$13,088.30	
„ expenditure „ „ „ . . .	13,088.30	

The number of lots prepared and ready for sale Dec. 1, 1874, was 128 ; and the number of lots sold, 97, — being 3 more than in 1873.

Whole number of interments for the year, 475, — being 2 more than for the year previous ; and making the whole number of interments in the Cemetery, 8,358.

The excess of expenditures above receipts is due again this year, as it was last, to the large amount of grading necessary to be done in the way of laying out new lots and developing the plan of the Cemetery as projected. This more particularly in the northerly portion of the grounds, where a new marginal carriage-road has been constructed, leading directly to the new Soldier's Lot. However, for all this advanced expenditure, we have the assurance of an early return in the larger number of lots made available for sale, to say nothing of the enhanced attractiveness resulting to the whole.

The new Soldier's Lot, begun in 1873, was completed last spring, and dedicated on May 30, the occasion of Memorial Day, when it was declared "devoted to the purposes of burial for all soldiers and sailors of the late war, who may die within the limits of the City, and for whom no other provision shall be made." Located upon commanding ground, it is readily distinguishable ; and, when it shall be adorned as intended, will form one of those special attractions inseparable to the memories of the heroic dead.

Your Commissioners have in present contemplation the improvement of that depression of land which exists immediately facing the lodge, by filling up the outer portion of the same, and excavating still deeper the central part, thus forming a pond, to be surrounded by handsome and desirable lots. This as an investment could not be other than an excellent one, as there would be gained 35 lots, valued at not less than \$300 apiece, realizing about \$10,000 ; while the work could be done for half that sum, even should it prove necessary to go outside the Cemetery for gravel, which it is not believed would be the case.

If favorably decided upon, — and the only question is that of present advisability, — an extra appropriation will have to be asked for.

In conclusion, we take pleasure in adding a word of commendation to the Superintendent for his unremitting attention to the duties of his place.

ISAAC BRADFORD,	} <i>Commissioners of Cambridge Cemetery.</i>
JOHN M. TYLER,	
GEO. S. SAUNDERS,	
WILLIAM PAGE,	
CURTIS DAVIS,	
GEO. T. GALE,	

CAMBRIDGE, Dec. 1, 1874.

REPORT
OF THE
COMMITTEE ON SOLDIERS AND THEIR FAMILIES.

CITY OF CAMBRIDGE,
In Board of Aldermen, *Dec.* 28, 1874.

THE Joint Committee on Soldiers and their Families submits to the City Council its Report for the year ending Nov. 30, 1874.

The whole number of cases in which aid has been granted during the year has been 294. The number now on the list is 274.

The appropriation for volunteers and their families
was \$22,000.00
The amount paid from said appropriation to Nov. 30,
as appears by the books of the Auditor, was . . . 21,000.00

The payments of State Aid, as returned to the Auditor of the Commonwealth, are for the year ending Dec. 31, 1874, and amount to \$20,584.00, of which sum \$19,668.00 will be reimbursed to the City by the State. The monthly payments now amount to about \$1,700, and an appropriation of \$21,000 will be sufficient for the ensuing year.

All which is respectfully submitted.

F. IVERS,	}	<i>Committee on Soldiers and their Families.</i>
JOHN McSORLEY,		
GEO. H. HOWARD,		
J. T. G. NICHOLS,		
JOHN J. HENDERSON,		

REPORT

OF THE

BOARD OF OVERSEERS OF THE POOR.

To the Honorable the City Council of Cambridge : —

GENTLEMEN, — The close of the financial year of the City brings with it the duty of the Overseers of the Poor to present to your body the annual statement of the condition of that branch of the public service under its charge.

During the past year the stagnation of business and scarcity of work for the laboring classes have made the calls upon the charity of the City larger than ever before.

Men and women, heads of families, accustomed to hard work, who have sought it from place to place, have been obliged, in order to keep starvation from their little ones, to ask aid of the Overseers, when nothing but the love for their little ones could have compelled them to do so. There have been some, no doubt, who, too indolent to work, have taken advantage of the sympathy which has been awakened for the worthy poor, and who have sought to impose upon the Overseers as well as upon our benevolently disposed citizens. The Overseers have, so far as they could, investigated the cases of those applying to them, and where any were deemed unworthy they have refused aid. The prospect for the future is that, owing to the recent change in the law, greater care will have to be exercised, as the number of applicants will be greater, and impostors be multiplied.

In order to avoid much of this imposition, the Board would suggest that it might be well for the City to provide some employment for the necessitous poor having families dependent upon them,

allowing them a small sum, say one dollar per day, during the severe months; then we could answer the call of many, by furnishing them with employment, aiding them to preserve their independence and encouraging industry. The Overseers have endeavored to meet the calls upon them in a spirit of charity, affording aid with a generous but careful hand, looking both at the needs of the poor and the economy of the City; and, though they may have dealt out sparingly, it is believed that no case of extreme want or suffering has been allowed to exist.

The number of inmates at our Almshouse is greater than ever before, now numbering 157. The average for the year has been about 129. During the past five years the number has more than doubled, and their character is such as to require the constant care of the Warden or his assistant.

In 1869 the average number was 66; and the recommendation of the Board of the previous year was "that, owing to the small number of inmates, the House and Farm be sold, and a smaller house be erected." Now the House is occupied nearly to its full capacity; and, if the increase goes on in this ratio, it will be necessary soon to provide more room.

The large number of boys at the House is the result of its being a workhouse as well as poorhouse. Truants and youth are sentenced by the Probate and Police Courts for theft, larceny, stubbornness, and minor crimes, on sentences varying from two weeks to two years.

This practice is very pernicious, and has a degenerating effect upon the good but poor children, who, through poverty (which should not be classed as a crime), are compelled to be there, but which under existing laws cannot be avoided.

Upon the recommendation of the last Board "that a person be employed to have a watchful charge over the boys," Mr. R. F. Mills has been selected for that purpose.

If the practice of sending criminals to the House is continued, the City will be obliged to erect some building specially for this purpose as a reformatory institution.

The number of boys and girls in the School, 62. Truants, boys, 27; girls, 1. Sentenced boys, 21. Pauper boys, 13; girls, 8.

During the year some repairs, entirely necessary, in the House have been made; the providing for a room as a lying-in hospital, and also a room for convalescents, was made by altering the partitions of the rooms in each wing. To provide a place for the reception of the stores for the House, made necessary by the changes in the boys' department, it was thought best to make a cellar under the Warden's wing. Soon after commencing the work, it was discovered that multitudes of rats had burrowed in the sand under the house, and that they had in many places undermined the foundation of the building; this in the construction of the building originally was composed of stones simply laid in the sand, giving every opportunity for these pests to work under it. It will not be many years before it will be necessary to repair the greater part of the foundation. It was deemed best by the Board to do the work thoroughly as far as we went; consequently the expense of the cellar was in larger part for the repairs upon the foundation.

Late in the previous year gas was introduced, doing away with the dangerous use of kerosene, and has proved to be a great convenience.

The great danger of the present method of heating the Alms-house, by a large number of stoves scattered over the different parts of the building, has been apparent to the Board for several years, and the expense, over \$2,000 per year for fuel and repairs, a considerable item. Considering this, the Board, under the direction of the Committee on Public Property, and by the authority of the City Government, have made arrangements with Messrs. Mellen, Williams, & Co., of Boston, to heat the building by steam. The boiler, "Weigand's Patent," with the necessary pipes and radiators, is now being placed in position; and it is hoped by the opening of the new year to have a safer, more economical, and effectual heating of the House. The estimated saving in fuel alone is from \$700 to \$1,000 per year. This meets a long-felt, much-talked-of improvement. Outside of the House more has been done than in previous years; but what was then left undone it has become incumbent upon this Board to do.

The building used for the storage and transfer of house offal had

become very much decayed ; and the accumulation of waste in the cellar had created a nuisance, of which the Board of Health complained, and ordered its immediate abatement.

To do this, the building was raised, the cellar drained and partially filled, and rearranged so as to accommodate the increasing business of the offal department ; and we now have, at a comparatively small cost, a building every way adapted to the business. Early last year the Board expressed the desire to be relieved of this business, which, it was felt, did not properly belong to them to attend to, and which, from its unproductiveness, caused our expenditures to appear larger than they ought to be ; but the opinion was expressed that no other place could be found that would give so little offence to the citizens, and that henceforth this would be the depot for it.

With this fact in view, and the knowledge that, as our City increased in population, this business would steadily increase, and more horses and teams be required, the matter for their accommodation was brought before us. Upon examination, the underpinning of our present barn was found to be all rotten, the building settled some six or eight inches, and the floor liable to fall through into the cellar at any time, carrying with it eight or ten horses, to be either killed or maimed.

Owing to the urgency of the case, the Committee on Repairs felt compelled to take immediate action. The City Government having adjourned during the summer months, the committee brought the matter before the full Board of Overseers, who visited the premises, examined the building, and finally concluded that it was best to raise it up and build on an addition which would meet all the demands of the present ; accordingly the building has been raised, remodelled, and is now in a good and satisfactory condition.

That there has long been need of this improvement may be seen by referring to the Report of the Board for 1866, eight years ago, where they say, "There is great need of a larger barn, and an appropriation for this purpose will be imperatively needed the next year ;" also in the Report of 1872, they stated "that it would be necessary to have a larger stable erected to meet the needs of the

farm." It was not until after careful consideration that the committee decided to alter and enlarge the building.

In May last it became evident to the Board that the raising of vegetables for the market was unproductive and undesirable, and by discontinuing it the Warden would be somewhat relieved ; consequently an order was passed that the part of the Farm used for this purpose be seeded down to grass for hay, obviating the necessity of buying so much of that article for the horses, and that no more vegetables be raised than would be needed for the use of the House.

They have also discontinued the working of the ledge, not because there were or had been any irregularities (as has been intimated by parties ignorant of the facts), but upon the ground that it was inexpedient for the City to engage in any such business.

In the hospital of the male wing are now fifteen sick and one insane (though not in any way dangerous), and many too feeble to take proper care of themselves, so that it seems necessary that some person be employed competent to take care of them, administer regularly their medicines, and to act as hospital steward. In this connection a word of commendation is due to our efficient and faithful Physician, Dr. James R. Morse, who has carefully and tenderly watched over the sick and dying, making them as comfortable as their cases would admit ; the kind, sympathizing words of the doctor have encouraged many a sick one during the twelve years he has acted as House Physician.

The School, under the efficient management of Miss Adams, has maintained its good order and discipline ; progress by the pupils is evident from their promptness in recitations. Miss Adams deserves more than a passing notice for her devotedness to her work, and her success with this class of scholars. The School now numbers sixty-two, and of such a class that it was deemed best to have an assistant ; consultation with the School Committee resulted in the appointment by them of Miss Hutchins, one who has taught with success elsewhere, — an appointment which meets the hearty approval of the Board.

The Sunday School still remains under the charge of Mr. Charles R. Patch, whose labor of love endears him to all.

To the Warden and Matron, Mr. and Mrs. Averill, and the Assistant Matron, Mrs. Doe, great credit is due for the admirable manner in which the institution is managed, the poor cared for and their wants supplied.

The Board, individually and as a body, have often visited the house, examined the inmates, tested the food as it was being served, and satisfied themselves that every thing was comfortable and good, far better than many of the inmates ever had outside of the House. The quality, quantity, and variety of the food given them is, as far as we know, better than that of most institutions of this character.

The large amount of money paid for aid outside, and to State institutions, cities, and towns, is in a measure the result of the new law of settlement, passed at the last session of the Legislature, whereby a person gains a settlement by a residence of five years and payment of taxes three years consecutively in one city or town, whereas formerly it required a residence of ten years and payment of five years' taxes. This also accounts in a degree for the large increase in the number of inmates of the House, we having now many to support that were cared for by the State before. The effect of this new law will be to greatly increase the duties of the Overseers, who will have now more than double the number of cases to investigate, and which they ought not to be expected to do without remuneration. In most of the cities and towns in the vicinity of Boston, the Overseers receive a moderate compensation.

Amount of Appropriation made by the City Council

at the beginning of the year	\$60,000.00
Additional Appropriation	12,000.00
Total Amount	\$72,000.00
Whole Amount expended	70,562.97
Balance unexpended	\$1,437.03

The Receipts have been as follows : —

From Products of the Farm	\$1,849.10	
,, Sale of house offal	3,484.14	
,, ,, stone	8,869.57	
,, State, cities, and towns . . .	3,899.05	
,, Board	491.00	
,, Rent of House	35.00	
,, Other sources	156.69	
		\$18,784.55

Amount due and uncollected : —

From Ledge, sale of stone	\$5,628.66	
,, Board	911.00	
,, House offal	356.00	
,, State, cities, and towns . . .	1,510.14	
		\$8,405.80
Value of personal property in 1873	21,617.00	
,, ,, ,, 1874	23,000.00	

Expenditures : —

For Salaries	\$3,391.65	
,, Supplies for House	7,990.32	
,, Dry goods, clothing, &c. . . .	1,821.80	
,, Sundry laborers	13,462.50	
,, Fuel, gas, and water	2,082.59	
,, Hay, grain, and meal	1,554.45	
,, Tools, hardware, &c. . . .	900.82	
,, Supplies to poor outside the House	22,944.20	
,, Support of persons in State Lunatic and Reformatory Institutions . .	4,988.39	
,, Repairs and materials	6,101.56	
,, Other expenses	5,324.69	
		\$70,562.97

RECAPITULATION.

Total Appropriation for the year	\$72,000.00
Balance unexpended	\$1,437.03
Receipts from all sources	18,784.55
Amount due	8,405.80
	28,627.38
Balance	\$43,372.62
Deduct expense of collecting offal above receipts . .	3,859.86
	\$39,512.76

ISAAC BRADFORD,
ALFRED L. BARBOUR,
LEWIS B. GUYER,
J. H. MULCAHY,
JAMES COX,
S. M. PARSONS,
BENJ. F. WYETH,

*Overseers of
the Poor
for 1874.*

CAMBRIDGE, Dec. 1, 1874.

REPORT

OF

JAMES R. MORSE, M.D.

VISITING PHYSICIAN.

To the Overseers of the Poor of the City of Cambridge :—

GENTLEMEN, — Having through your kindness and confidence been selected, at the commencement of the present municipal year, to have the care of all who should require medical advice and treatment among those connected with this institution of charity, the care and welfare of which is placed in your hands by the voters of the City, during the year now closing, and having accepted the appointment, and having endeavored to discharge faithfully the duties which have devolved upon me as Almshouse Physician, it becomes my duty at this time — in accordance with the uniform custom of your Board — to report the amount and character of the duties which I have been called upon to discharge during the year, in my care of the sick and feeble which have belonged to and been received into the House during the year now closing. And it gives me great pleasure to be able to report to you that our City during the year has not been visited by any contagious or infectious disease in an epidemic form, as only one case of small-pox has been cared for at the Hospital for Contagious Diseases during the year. There has, however, been a constant increase of sickness at the House, especially that of a chronic character; as a very large proportion of those who are now received at the Institution as the legitimate subjects for care and support are brought here in a very feeble and demoralized condition, having been a long time sick and

oftentimes subjected to exposure and neglect; and, as a result of their hard life, kind and encouraging words, and a kindly, watchful care of their real or imaginary wants and needs, seem to be the kind of treatment which they desire, and to contribute most to their comfort and happiness.

Also, an unusually large number of cases of acute disease have been treated and cared for at the House during the year. The inmates seem peculiarly liable to attacks of lung fever, as about twenty cases have been cared for in the Institution, some of which were of a very severe type, but they have all fully recovered, and no fatal case of acute disease has come under my care during the year; but of the large number of chronic cases which have been more or less constantly watched over and cared for during the last twelve months, sixteen have proved fatal, from the following causes: from pulmonary consumption five have died; dropsy and paralysis, three; old age, three; cancer, two; and from marasmus, heart disease, and inflammation and ulceration of the bowels, one each.

Eight cases of confinement have occurred at the House during the present year. One case of premature sickness occurred, in which the child was still-born; but all the others did well, and all the children seem healthy. Some of the mothers and their children still remain at the Institution, regarding this as their most desirable and their safest home.

Four foundlings have been received at the House during the present year; also, two very young orphan children, having been abandoned by their relatives and home friends, were taken to the House and tenderly cared for by the Matron and her assistants until other provision was made for their care and comfort. One of this number, when brought to the Almshouse, seemed to have been so thoroughly poisoned with narcotic drugs that its stomach rejected all nutriment; and after some days of faithful and earnest effort to nourish and restore it, without success, its young life was made a sacrifice to inherited disease, and a want of care previous to its becoming an inmate of this Institution of kindness and charity.

A few severe accidents have occurred, requiring surgical aid, all of which have fully recovered.

You will allow me to thank you, gentlemen, for your early and cheerful compliance with the suggestion that a more retired and convenient room be provided for "lying-in" purposes; and the report which I herewith present of my professional services in that department gives ample evidence that such a change was desirable, and is a decided improvement in the care of that unfortunate class.

The large number of persons in the House who seem to require a constant attendance renders it desirable that I should visit the inmates daily; it seems to contribute to their comfort and happiness, when I make frequent calls upon each personally, and give them a few words of encouragement and hope. I have also, when desired, visited persons at their homes who have sought aid from the City.

Many of the professional duties to which I have been called in the care of the inmates of this Institution would have been unpleasant, had I not at all times felt that the Warden and Matron, and all those who were associated with them, were fully in sympathy with myself; I have ever felt that we have had one common interest, and in that we have been perfectly united. The duties of the darkest hour with me have been made comparatively pleasant through the willing and cheerful assistance of all those who were striving faithfully to bring comfort and happiness to those who were under our care. I cannot here refrain from expressing my deepest gratitude for the recent kindly expression of their friendship by every member of the Institution, by a present in which each inmate joined. The beautiful gift had its value; but the motive which prompted the gift has a value to me which the heart alone can feel, but cannot estimate. I have learned from the lessons and discipline of life to feel that those discharge their duties most perfectly whose heart is warm in sympathy with others' sorrows, and whose words are full of kindness towards those whose life path has been strewn with thorns. Of the many burdens and anxieties which belong to those whose duty it is to care for an institution like this, the outer world knows but little. Still our faithful Warden and Matron, and all those who aid them in the immediate care of the House, may ever feel assured that good

deeds and kind words serve to heal the deepest wounds and bind up many a broken heart.

Allow me, in closing, to express my gratitude to you, gentlemen, for all your kindness to me personally, and for your cheerful compliance with all the suggestions made by me for the benefit of the Institution.

Respectfully submitted.

J. R. MORSE.

CAMBRIDGE, Dec. 1, 1874.

ANNUAL REPORT

OF THE

CHIEF ENGINEER OF THE CAMBRIDGE FIRE DEPARTMENT.

FOR THE YEAR ENDING NOV. 30, 1874.

CHIEF ENGINEER'S OFFICE, CITY HALL, }
CAMBRIDGE, Nov. 30, 1874. }

To his Honor the Mayor and the Honorable City Council of Cambridge : —

GENTLEMEN, — As provided in Section 6 of the Fire Ordinance, I respectfully submit my Fourth Annual Report of the Steam Fire Department of Cambridge. The Report will be found to contain full information of the condition of the Department, with statements of the amount of loss by fire and the amount of insurance on the property destroyed, so far as ascertained, together with a complete roll of the members, and certain suggestions and recommendations.

MEMBERSHIP.

The Department membership has been increased since the last Report by the addition of thirty-six persons ; and it now numbers one hundred and twenty-one, divided as follows : one Chief and four Assistant Engineers ; one Relief Engineer ; five Steamer Companies, each consisting of fourteen members ; two Hook-and-Ladder Companies, each with a membership of twenty-one persons ; two telegraph operators and repairers ; and one independent driver of Supply Hose-carriage No. One.

APPARATUS OF THE DEPARTMENT.

Since the last Report a hook-and-ladder truck, manufactured by E. B. Leverich, of Brooklyn, N. Y., an independent or supply hose-carriage, and a steam fire-engine and hose-carriage have been added to the Department, and are now performing service. The Department therefore consists of five Amoskeag Steam Fire-engines, six hose-carriages, and two hook-and-ladder trucks, all of which are drawn to fires by horses. The steam fire-engines owned by the City are, as before stated, of the Amoskeag manufacture, and differ somewhat in form of construction and capacity. Nos. One and Five are of the pattern known as the "Harp Tank," and Nos. Two and Three of the pattern called "Crane Neck," while No. Four is known as a "Straight Frame." Nos. One and Five have single pumps, and Nos. Two, Three, and Four, double pumps. Hook-and-Ladder Truck No. One, which belonged somewhat to the ancient order of apparatus of that description, has been shorn of its defects, and remodelled to answer the requirements of the present day. The truck is now both convenient and substantial, and is capable of being more heavily loaded with the equipments required to be operated under that form of fire service. Hook-and-Ladder Truck No. Two is of the pattern operated in New York and other cities, differing only in the form of construction of the sides, they being of iron, and open, while No. One Truck has box or close sides. Both vehicles are strong and serviceable, and will doubtless be capable of performing the service for some years. The Independent Hose-carriage, Supply No. One, was put in service on October 1, and has already more than paid for itself in being promptly on hand at fires. For many years the desire was expressed that a carriage of this description should be added to the Department; and it was shown, without effect, however, that an extra supply of hose at a fire would materially assist in its extinguishment, particularly should one or more lengths of hose be burst in lines through which the water should be passing. Delays caused by sending to remote engine-houses for extra hose have been productive of increased loss of property, which could have been avoided, had there been a supply of hose on the ground

independent of the complement carried by the tenders to the engines. The long-felt want, I am happy in saying, has been supplied, and in one instance, the partial burning of Osborn's Mill, on November 26, this new addition to the Department was instrumental in piecing out lines of hose from two steamers, thus securing an earlier application of water, and in greater quantity, to the burning structure. While alluding to this very useful appendage, I may be allowed, I trust, to express my thanks to the Mayor and City Council for their unanimous recognition of the recommendation for this apparatus in the last year's Report of the Chief Engineer. The Report of last year also called your attention to the great need of additional extinguishing apparatus; and upon a recommendation therein contained, that a steam fire-engine should be located at "Atwood's Corner," your Honorable Boards proceeded as soon as possible to consider the proposition, and to appropriate money to meet the expense of the undertaking by purchasing land and erecting a suitable house thereon. Under authority of the City Government, a steam fire-engine, hose-carriage, horses, and other equipments have been placed in the house erected by your authority, and a new company organized, all of which are now part and parcel of the Department. The topographical situation makes the performance of duty of this engine of great importance to the citizens at large; for on occasion of fire it can respond to nearly every part of the City, and be the second engine to reach the scene of destruction. The engine will answer all alarms of fire; a performance which will give to the operators of it a large share of the duty, as compared with the responses of other apparatus and companies. Early in the spring an order passed your Honorable Boards, authorizing and directing the Chief Engineer to contract for the construction of a wagon to be used for fire-alarm telegraph purposes, the want of which had been seriously felt. Such a wagon, built to order, and having the necessary conveniences, was procured, and is now in service, with its ropes, ladders, wire, brackets, &c., ready at a moment's notice to answer such calls as may be made upon the fire-alarm branch of this Department. In addition to the apparatus heretofore mentioned, the Department has one reserved steamer, old No. Three, and one

reserved two-wheeled hose-carriage, together with four wagons for the transportation of fuel in cases of fire, and for the proper exercise of the horses at the stations at which said wagons are housed. There is also connected with the Department, hand Engine No. Four, which is stored away, and which awaits a purchaser, the further use of it having been abandoned in 1871, at which time the Department became one wholly operated by steam.

DEPARTMENT HORSES.

The Department now employs the use of twenty-one horses; and during the year one horse, for many years connected with Engine Two, suddenly died, after dragging the engine to a fire. One of the horses attached to Truck One died of disease last summer, after a service in the Department of nearly six years. Horses have been purchased for Trucks One and Two, Engine Two, and Hose Five. No purchase of horses has yet been made for Engine Five, but a pair is now on trial. One of the horses connected with Engine One, one formerly employed on Engine Two, and one formerly connected with Engine Three, and also one attached to Truck One, have been disposed of in the way of trade, they having passed their usefulness. Engine One now needs a new pair; and I would recommend the purchase of such as soon as convenient, and would also recommend the displacing of "fire horses" whenever they show the least signs of disease, or physical inability to perform the work required. Horses employed in fire departments should have qualities not particularly necessary for them to have in other kinds of work; and it is oftentimes quite difficult to select creatures which are docile and strong, and favored with speed. Perhaps there is no kind of work in which horses are engaged which requires so many good traits as are necessary in horses used in the Fire Department. Their work comes suddenly upon them, in sunshine or in storm, in daylight or in darkness; and they are expected to and *must* start off with a dash and speed which most horses would revolt against or sink under. The excellent treatment at the hands of careful and kind drivers have made the horses of this Department docile and faithful creatures;

and it has only been requisite to make changes when age or physical disability has prevented the same prompt response to duty.

A horse which could work in a cart or wagon requiring but a slow rate of speed could not work in the Fire Department, where a quick response would be the saving of thousands of dollars' worth of property. Heavy work-horses are not the kind for fire service, and should not be purchased.

STEAM HEATERS.

I had the honor to suggest in the Report of 1873 the practicability of attaching steam-heating apparatus to the boilers of our steam fire-engines for the purpose of keeping up steam therein at all times. All departments of any magnitude (and even in places where only one steam fire-engine is employed) have adopted appliances to render the use of the steam fire-engine more prompt and efficient; and in no instance has it appeared that the appliance has not proved its complete thoroughness. By order of the Honorable Council, a steam-heater has been procured and attached to Engine Three; and, in several instances since the attachment was made, the engine has been enabled to get "steamer-water" upon fires occurring at short distances from the fire station, — a desideratum which secures an early extinguishment of fires, and obtains for it full endorsement. I believe that all our steamers should be provided with these heaters, and, having full faith in them, would recommend their purchase.

FIRE HYDRANTS AND WATER FACILITIES.

This branch of the service has received the attention of the Honorable Water Board and the efficient Superintendent of the Water Works during the past year.

The old style flush hydrant has been discarded, as it should have been years ago, and an improved pattern introduced, the same having had the endorsement of the Water Board, upon recommendation from this Department. The improved hydrant is known as the post or plug pattern, and materially differs from the old style, in that it stands above the ground, has two outlets, requires

no packing in the winter to prevent freezing, and requires no clearance of snow, as is required in those of the flush pattern. Fifty-two of these hydrants have been set since the last Report, and the Water Board and the Superintendent assure the setting of more of them.

The Water Board, in addition to the work alluded to above, has ordered the laying of larger water mains in neighborhoods heretofore having but a partial water supply for the extinguishment of fires, with which mains post fire-hydrants have been connected. The Report of the Superintendent, Mr. Dudley, will show that large mains have been laid in Harvard Square, Brighton and Mount Auburn Streets, Putnam Avenue, Bridge, Gore, Brookline, and other streets; and it is in contemplation, on the opening of spring, to lay large service mains in Harvard, Green, State, Osborn, Mount Auburn, and other streets where the water supply for the extinguishment of fires is altogether inadequate.

The quantity of water in large mains is always assured; but the pressure is not what it should be, and it will remain the same until such time as the fountain shall be elevated by stand-pipe or reservoir, the latter being considered the surest and best manner of distribution.

The number of hydrants in the City is 463, an increase of 222 since 1870, and of 50 since the last Report was made. We have too few fire-hydrants for the large territory exposed to the ravages of a conflagration; and I make no doubt that the Water Board will be as watchful in this matter in the future as it has been during the past four years. The hydrants consist of 379 flush or old pattern, and 84 post or new style, the whole divided in the several wards as follows: Ward One, 111; Ward Two, 118; Ward Three, 74; Ward Four, 83; Ward Five, 78; total, 464.

FIRE-ALARM TELEGRAPH.

This important branch of the service has performed its mission in a manner which has won for it the highest encomiums. To it much of the success attending the operations of this Department is due. Under an order from your Honorable Boards, and approved

by his Honor the Mayor on May 7, four fire-alarm boxes were purchased of Gamewell & Co., the manufacturers, and placed in neighborhoods heretofore without such important means of denoting the presence of fire. Two of those boxes have already been used to signal the existence of fire, and in both cases were instrumental in preventing a serious destruction of property. The boxes mentioned have been located as follows: No. 23 at the corner of Sydney and Allston Streets; No. 43 at the corner of Banks and Flagg Streets; No. 45 on Franklin Street, near Soden Street; and No. 57 at the corner of Oxford and Mellen Streets. In addition to these boxes, the Union Railway Company has purchased a box, No. 91, and located it on the car-house on North Avenue, near Frank Street. This box is connected with the fire-alarm telegraph; and though it is private property, yet its use may be called into service by the public in case of fire, as has already been the case. The Chief Engineer cannot refrain from calling your attention to the fact that the number of our fire-alarm signal boxes is altogether too small, and would recommend the purchase of six or eight additional boxes every year, or until such time as it may appear that all sections of our City are provided with this means of protection against fire.

A fine tower has been erected on the Webster School-house the present year by your authority, in which has been placed a bell weighing 1,519 pounds. A striking apparatus has been connected with the bell; and on the occasion of alarms of fire the citizens and firemen residing in Ward Four have thus been informed of the location of the fire.

The want of greater bell-striking facilities requires the observance of the old-fashioned method of ringing the church-bells; a custom which annoys the citizen, but which arouses the fireman to the performance of his duty. To discontinue the ringing of bells without providing some other method of giving alarms, would work injury to the service, however much it might gratify the citizen. Firemen cannot all reside in the immediate vicinity where bell-striking machinery is located; hence it is required that these men should be apprised of a fire at least at as early a moment as the citizen. The fireman has a penalty to pay for his

absence from duty; and it is his boon and undeniable right to expect that he will receive proper notice of fire. The efficiency of the Department is held of greater importance than the necessary annoyance or inconvenience imposed upon the citizen by the ringing of a church-bell; and all fair-minded people will admit the force of the case as presented.

It is earnestly desired that additional bell-strikers be purchased, and located in proper localities. I would recommend that a bell be purchased, and placed in the tower of the new engine-house at "Atwood's Corner," and that a striker be attached thereto. The bell-striker now located in the tower of the Unitarian Church, on Third Street, has always been out of place, and should be removed, and placed in a more elevated position; for where it is now located only a portion of the citizens of Ward Three are apprised of its striking on the occasion of an alarm. I would recommend that a suitable tower be erected on the Putnam School-house, a bell purchased and placed therein, and the striker removed from the church, and connected with the new bell. The change would give to the entire ward and the "Lower Port" notice of all alarms of fire. The cost of the change would be inconsiderable when compared with benefits to be derived.

The increase of boxes and other attachments necessitates the introduction of extra battery cups, so that at present there are 275 cups of battery at the head-quarters in Church Street. There are connected with the telegraph 49 street boxes, 9 engine-house gongs, 9 engineers' or police gongs, 3 tappers or call bells, and about fifty miles of wire.

Early in the spring a wagon was procured for use of this branch, for the purpose of carrying ladders and other equipments which are frequently called into requisition when making repairs. The further attachments to this branch of the service are 4 repeaters, 5 galvanometers, 1 switch board, 5 strikers, 2 sounders, and other instruments and equipments. The Fire-alarm Department has been under the immediate control of Mr. George J. Blaisdell since the sad accident which befell Mr. Thomas J. Leighton, the former operator, in April, 1872. Mr. Blaisdell has given the fullest attention to the responsible office he holds, and with his

associate, Mr. David J. Campbell, has faithfully performed the trust reposed in him.

PREVENTION OF FIRE.

I have taken occasion in previous reports to allude to the necessity of regulating by ordinance the erection of buildings in this City, the better to protect property against fire. Nothing in this direction has been done; and buildings of the frailest character continue to be put up in neighborhoods thickly settled, where, should a fire occur, loss of life, as well as the destruction of property, would ensue. Buildings of wood and brick grow up like gourds, the only aim of the owners, it would seem, being to fill them up with tenants, regardless of the danger of fire or the sacrifice of human life. Chimneys and fire-places are put up out of plumb, and laid directly upon wooden bases. This matter has been frequently urged upon you, and the Chief Engineer again asks that a regulating ordinance be passed. He would also call your attention to the use and storage of inflammable and explosive materials in stores and workshops, and would recommend that due notice, under statute law, may be taken of a practice which exists to a large extent in this City. During the present year two serious fires have occurred in Cambridge, in manufacturing establishments, where the most inflammable materials were used. To prevent the recurrence of such calamities to the mechanical industries of our City requires, it would seem, stringent measures. It is quite true that objection is made to the enactment of regulating laws in this direction, on the ground that they are arbitrary and onerous; but then the question arises, Shall the individual presume to impair the rights and privileges of the great body politic? In other words, shall a hazardous business be conducted in a populous neighborhood?

This question of prevention of fire is fully as important as is the question of its extinguishment. In the latter case no opposition is raised against increasing the extinguishing appliances, because, probably, the expense falls upon the public, and not upon the individual where it would fall if he was required to make his premises

as near proof against fire as is possible. I trust that your Honorable Boards will consider this subject carefully, and pass such an ordinance as would seem right and proper.

FIRES AND ALARMS.

The number of fires and alarms form a tie with the number reported in 1873, although the loss by fire has not been so great. The most serious fire which has occurred during the year was that on the premises of the Boston Stamping Company, on Third Street, on the morning of January 19, where a loss of \$45,000 was involved.

The next fire of any consequence occurred on the morning of March 8, in the extensive planing-mill of George O. Ladd & Co., on Brighton Street, where a loss of \$3,700 was sustained.

On the morning of April 17 a very serious fire occurred in the picture-frame manufactory of J. J. Gray & Co., on Broadway. The flames spread with rapidity, owing to the combustible character of the materials used in the business, and baffled all efforts to extinguish them. The building, a light frame structure, became a mass of ruins in a short time. A loss of \$40,000 was the consequence.

The tallow-rendering establishment of Charles Cooper & Son, on River Street, was destroyed by fire on the morning of May 7, involving a loss of \$5,100 to the firm.

The large building on Montgomery Street, owned by S. G. Reed, and occupied as a currier's shop, was struck by lightning on the morning of August 22, and completely destroyed.

Messrs. William and William H. Cooper suffered a loss amounting to \$4,100, by the burning of their property on Fairmont Street, on the morning of September 1.

The partial burning of the building known as Osborn's Mill, on State Street, on the afternoon of November 12, caused a serious loss to the owners of the building and to the several occupants.

A loss of \$7,100 was sustained by the owner and occupants of the building on Belmont Street injured by fire on the evening of November 29.

Other fires of less note have also occurred besides those enumerated, a record of which may be found elsewhere in this Report.

The whole number of fires and alarms from December 1, 1873, to November 30, 1874, has been 97. The aggregate value of property destroyed is shown in a tabulated statement elsewhere. The amount of insurance on the property destroyed is also presented in the same table.

APPROPRIATIONS AND EXPENDITURES.

The amount appropriated at the beginning of the year for use of this Department was \$87,000, since which an additional appropriation of \$10,360 was made to meet the payment of extraordinary demands. The expenditures may be classified as follows : —

Services of members, including salaries of Chief and

Assistants	\$37,814.49
Hay, grain, and straw	3,009.69
Harnesses and repairs	1,015.47
Fuel and gas	2,723.41
Repairs and materials	4,761.23
New Steam Fire-engine No. 2	4,250.00
New Hook-and-Ladder Truck No. 2	1,875.00
Alterations and repairs of Truck No. 1	1,356.72
Fire-alarm and other expenses	12,933.53
Alterations of engine-houses	13,629.43
Land and house, "Atwood's Corner"	11,300.00
Horses for No. 2, and Trucks Nos. 1 and 2	2,200.00
Hose and repairs	486.93
	\$97,355.90

Appropriation	\$87,000.00
Additional appropriation	10,360.90
	\$97,360.90
Amount of expenses	97,355.90
Balance unexpended	\$5.00

FIRE STATIONS.

Since the last Report was submitted to your Honorable Boards, very important changes have been made in the quarters occupied by the several fire companies. The suggestions presented in the last Report in relation to the unsuitable apartments occupied by Engine Companies Nos. One, Two, and Four have met your unanimous countenance; and those stations, excepting Station No. One, have been remodelled, and put in a condition which will give to the companies such accommodations as were really required. While no changes have been made in Engine-house No. One, yet the company is promised very excellent quarters in the new building now in course of construction on the corner of Mount Auburn and Eliot Streets.

The new building will doubtless be ready for occupancy during the coming summer, at which time the company will take possession of apartments creditable in every way and affording conveniences not hitherto enjoyed.

Engine-house No. Two, occupied for years as a steamer and hook-and-ladder house, has been raised and thoroughly reconstructed in its interior arrangements. A capacious basement, with conveniences for washing hose, has been provided, the engine-room made twice its former size, and the second story provided with separate sleeping-rooms for the permanently employed men. In connection, a parlor or meeting-hall and a bath-room have also been furnished. The house will now compare favorably with any house in the City; and the company will be better enabled to care for the hose and other property in its possession.

Franklin Hook-and-Ladder Co. No. One, which for many years was quartered in this building, has been furnished with quarters in the new City building, corner of Western Avenue and Green Street. The apartments devoted to this company are excellent in every respect; and connected with them is a tenement of five rooms, in which the driver and his family reside. The separation of the two companies in the occupancy of the same quarters has given satisfaction to all concerned, and has presented an opportunity by which a better class of equipments could be placed upon the truck.

Engine-house No. Four has been subjected to changes which are decidedly for the best. A cellar has been excavated and provided with hose-washing facilities, and changes of a satisfactory character have been made in the engine-room.

The old wooden stable which was bought for a mere song, and placed against a structure costing thousands of dollars, has been removed, and a substantial brick building erected in its stead. A stable of large dimensions, with wagon shed, now covers the space formerly occupied by dilapidated wooden buildings. Above the stable and wagon shed convenient sleeping-rooms have been provided, which are so arranged as to be free from the odors of the stable.

In this connection I would say that steam-heating apparatus has been introduced into Houses Nos. Two and Four, thus displacing the old method of securing warmth from eccentric stoves. In August last the erection of a new brick engine-house was commenced at the corner of Hampshire and Inman Streets, "Atwood's Corner," by Mr. James H. Keenan, contractor. The building was rapidly pushed forward to completion by Mr. Keenan; and on the thirtieth day of November possession was given of the premises so far as to enable this Department to house an engine and equipments. The building is provided with all modern improvements, and reflects credit upon the architect, Mr. James Fogerty; the carpenter, Mr. Keenan; the mason, Mr. Bacon; the painter, Mr. Tufts; the plasterer, Mr. Gallagher; the slater, Mr. Blevins; and upon all others who in any way aided in its erection. The wooden building occupied by Mayor Bradford Hook-and-Ladder Co. No. Two, corner of Cambridge and Portland Streets, requires alterations to make it comfortable and more convenient; and I would recommend that proper changes be made there during the ensuing year.

INJURIES SUSTAINED AT FIRES, AND LOSS OF LIFE.

It is gratifying to report that but few accidents have occurred to citizens or to members of this Department at fires during the past year. By the partial burning of a small tenement on Portland Street, on the morning of April 7, the lives of two persons were

sacrificed by suffocation. Mrs. Margaret Merrick, advanced in years, and an invalid, occupied an upper room in the building. On the night previous to the fire, a young girl, named Isabella White, proffered her company for the night to Mrs. Merrick, which offer was accepted, as the sick woman required many little attentions during her helplessness. At half past four o'clock, the next morning, the house was discovered on fire by the inmates occupying the lower apartments; and efforts were at once made to rescue the unfortunate females in the upper story. Those efforts were futile; and it remained for the firemen, upon their arrival, to discover the lifeless bodies upon the floor of the room they had occupied during the night. Both bodies were removed from the building, and placed in the care of friends.

At the burning of Gray's picture-frame factory on Broadway, on the morning of April 17, Messrs. Munroe and Ricker, of Truck Co. No. Two, and other firemen, received slight injuries; and Mr. Elbridge Green, a citizen, slipped from a curbstone, and broke one of his legs.

While proceeding to an alarm of fire on the evening of July 14, Assistant Foreman Scanlan, of Engine Co. No. One, was thrown from the hose carriage, owing to its being overturned, and received injuries upon his head and other parts of his body.

Sylvanus G. Griffin, a member of Engine Co. No. Four, was thrown from the hose-carriage seat while proceeding to an alarm of fire from box 91 on the morning of August 22, receiving painful bruises.

At the burning of Osborn's planing-mill on the afternoon of November 12, Edwin Winward and John Casey, hosemen of Engine Co. No. Three, were struck by a piece of falling coving. Casey received injuries of a slight character, and Winward had two ribs broken by falling to the ground from a ladder. Other firemen also received slight injuries at the same fire.

Assistant Engineer Farmer suffered a severe sprain of his shoulder at the fire on North Avenue, on the afternoon of November 18, while endeavoring to save himself from falling through the burnt flooring.

DEPARTMENT HOSE.

The question of providing fire departments with a serviceable quality of hose has become an important one with manufacturers of this form of fire department equipment ; and that question was a source of protracted discussion at the Convention of Fire Engineers at St. Louis, Mo., in October last. The manufacturers of the several kinds of hose exhibited to the Convention claimed, as a matter of course, a superiority each over the others' productions.

The experience of firemen in the use and handling of hose differs very much ; and, instead of there being a unanimity of opinion as to the best kind of hose, the reverse is the case, for with many men there must of course be many minds. Rubber, cotton, linen, and leather hose each have their advocates. While I do not wish to disparage the goods of any manufacturer, yet I must say that, from many years of experience and observation, I am convinced that thoroughly oak-tanned, well-riveted leather hose is the most durable, and consequently the most economical, of any hose which may be purchased for general department uses. With the present engine-house facilities, this quality of hose will receive better care than has hitherto been the case, and must therefore be expected to last longer in the service.

This Department has invariably made use of leather hose ; but much of it has been early unfitted for service, owing to the want of proper washing and hose tower facilities. These facilities we now have ; and it is my opinion that hose hereafter purchased will, with the care it is sure to receive, last for several years. The quantity of hose now in the Department is not sufficient, as the quality of a large portion of it is not of the first order, owing to the long time it has been in use. To cope with fires successfully it is requisite to have a trustworthy article of hose and plenty of it ; for, with the pressure of water from the steam fire-engine, it is put to a severe test, and is liable to give out unless the standard is maintained. The frequent repairing of hose, when once it begins to show weakness, admonishes those of experience that outlays of money for such a purpose are really misapplied. I would not, therefore, recommend too frequent repairs upon hose which cannot

resist a fair water pressure upon it without bursting; but I would recommend that all such quality of hose be immediately replaced with a serviceable article.

A considerable outlay will require to be made the coming year for new hose, which is just as essential to have as is the steam fire-engine, for neither would be of avail without the other. I would recommend that 3,000 feet of leather hose be purchased at as early a moment as possible for general distribution throughout the Department.

DECEASE OF MEMBERS.

The Department has had occasion to deplore the death of two of its members the present year, bereavements which carried sadness to the hearts of all. The deceased were trusty friends, warm-hearted associates, and faithful members of the organization.

Captain Charles A. Paine, Assistant Foreman of Union Engine Co. No. Two, received an injury while alighting from the hose carriage, at the burning of Ward's Carriage Repository, on Feb. 13, 1873, which affected his nervous system to an extent which caused him months of pain and suffering. His companions of the company and his associates of the Department were assiduous in their fraternal attentions, cheerfully performing offices of kindness, and trusting the while that relief and recovery might be vouchsafed to the sufferer. On the thirtieth day of January, 1874, Death, the reliever of all human woes and sufferings, laid his icy fingers upon the sufferer, and gathered him to his fathers. The late associates of the deceased attended to a proper sepulture of the remains, and also passed appropriate resolutions *in memoriam*.

Mr. Thomas J. Leighton, telegraph operator, injured while in the discharge of his duty, on April 6, 1872, died at the residence of a brother, in Lowell, on April 14, 1874. The death of Mr. Leighton cast a gloom over the large circle of his acquaintance, for he was respected for the many good qualities of which he was possessed. His sufferings from the moment of the accident to the time of his decease were excruciating; and the best of medical skill, which was employed, failed to give relief.

During the illness of Mr. Leighton, the City commendably con-

tinued his salary ; and, after his decease, all medical and burial expenses were borne by the City, by unanimous consent of the City Council.

FIREMEN'S RELIEF ASSOCIATION.

This organization, composed of members of the Fire Department, continues to merit the appreciation of the public. The Association is based upon the principle of relief, and makes weekly disbursements of money to its members who receive injury in going to, working at, or returning from a fire ; and it also extends relief to those who become sick from exposure while performing fire service.

The treasury of the Association is in a satisfactory condition, the funds having been somewhat enhanced during the past year by the receipt of contributions from liberal citizens.

The officers of the Association are as follows : —

President. — P. H. RAYMOND.

Vice-President. — WILLIAM H. EMORY.

Secretary. — CHARLES EMERSON.

Treasurer. — WILLIAM B. CADE.

Trustees. — P. H. RAYMOND, WILLIAM H. EMORY, WILLIAM B. CADE, THOMAS J. DALE, BENJAMIN YOUNG, FRANCIS P. SCANLAN, CHARLES EMERSON, JAMES J. FLEMING, and JEREMIAH S. HOBBS.

MONTHLY STATEMENT OF FIRES AND ALARMS.

Date.	Time.	Box.	Location.	Remarks.
1873.				
Dec. 3	5.05 P.M.	9	Thorndike St.	Defective heating apparatus.
" 3	5.10 P.M.	9	" "	" " " "
" 6	6.00 P.M.	Bell	Forest Street.	Burning of household effects.
" 10	6.40 P.M.	46	Main Street.	Interference with signal-box.
" 17	6.25 P.M.	65	North Avenue.	" " " "
" 24	11.00 A.M.	36	Soden Street.	Fire on roof caused by sparks.

Whole number of fires and alarms 6

Number of fires and alarms corresponding month, 1872 . 5

MONTHLY STATEMENT OF FIRES AND ALARMS — *continued.*

Date.	Time.	Box.	Location.	Remarks.
1874.				
Jan. 10	5.00 P.M.	15	Charles Street.	Smoke from chimney.
" 19	6.10 A.M.	6	Third Street.	Cause of fire unknown.
" 19	6.15 A.M.	6	" "	" " "
" 19	6.20 A.M.	6	" "	" " "
" 19	7.40 P.M.	6	" "	Rekindling of ruins of previous fire.
" 20	8.50 P.M.	62	Story Street.	Overheated furnace-pipe.
" 22	12.29 A.M.	52	Elmer Street.	Drying plastering. [ney.
" 26	4.35 P.M.	16	Dock Street.	Sparks on roof from foundry chim-
" 30	1.14 P.M.	2	Bridge Street.	Defect in counting-room chimney.
" 30	11.55 P.M.	32	Webster Ave.	Overturning of kerosene lamp.

Whole number of fires and alarms 10

Number of fires and alarms corresponding month, 1873 . 8

Feb. 12	1.00 P.M.	32	Winsor Street.	Fire in Somerville.
" 23	3.40 P.M.	31	Warren Street.	Alarm unnecessary.

Whole number of fires and alarms 2

Number of fires and alarms corresponding month, 1873 . 9

Mar. 4	2.06 P.M.	71	Harvey Street.	Defective flue in dwelling.
" 4	2.10 P.M.	91	" "	Alarm given for same fire.
" 4	10.20 P.M.	13	Winter Street.	Fire of supposed incendiary origin.
" 8	1.20 A.M.	59	Brighton Street.	Fire in planing-mill.
" 8	1.25 A.M.	59	" "	" " "
" 8	1.30 A.M.	59	" "	" " "
" 21	1.18 P.M.	2	Charlestown.	Fire in State Prison work-shop.
" 25	5.20 P.M.	26	Main Street.	Burning of shavings.
" 26	7.31 A.M.	37	Pleasant Street.	Defective chimney in dwelling.
" 27	4.50 P.M.	9	Thorndike St.	Defective heating pipes.

Whole number of fires and alarms 10

Number of fires and alarms corresponding month, 1873 . 2

April 1	8.00 A.M.	32	Webster Ave.	Sparks from chimney on roof.
" 7	4.30 A.M.	17	Portland Street.	Defective chimney. Two persons suffocated.
" 7	4.35 A.M.	17	" "	Defective chimney. Same fire.
" 12	9.04 A.M.	79	Brown Street.	Burning of clothing in closet.
" 13	9.15 P.M.	36	Main Street.	Burning of meat on stove.
" 17	7.04 A.M.	16	Broadway.	Burning of picture-frame factory.
" 17	7.10 A.M.	16	"	" " " "
" 17	7.15 A.M.	16	"	" " " "
" 19	12.00 P.M.	31	Jefferson Street.	Attempted burning of tenement house.
" 20	5.50 P.M.	9	Thorndike St.	Slight fire in dry-house.
" 24	1.46 P.M.	9	Cambridge St.	Fire in hay-loft.
" 24	1.50 P.M.	9	" "	" " "
" 24	1.55 P.M.	9	" "	" " "
" 26	1.20 A.M.	59	Dunster Street.	Incendiary.

Whole number of fires and alarms 14

Number of fires and alarms corresponding month, 1873 . 8

MONTHLY STATEMENT OF FIRES AND ALARMS — *continued.*

Date.	Time.	Box.	Location.	Remarks.
1874.				
May 7	12.35 A.M.	37	River Street.	Fire in tallow-rendering works.
„ 7	12.40 A.M.	37	„ „	„ „ „ „
„ 13	1.30 A.M.	36	Main Street.	Fire in photographer's rooms.
„ 13	2.45 P.M.	14	Gore Street.	Sparks set fire to roof of building.
„ 21	5.15 P.M.	48	Tremont Street.	Explosion of kerosene lamp.
„ 24	9.10 P.M.	Bell.	Main Street.	Fire in closet.
Whole number of fires and alarms				6
Number of fires and alarms corresponding month, 1873				5
June 1	6.56 P.M.	9	Thorndike St.	Defect in heating apparatus.
„ 15	5.45 P.M.	43	Flagg St. Court.	Fire caused by defective chimney.
Whole number of fires and alarms				2
Number of fires and alarms corresponding month, 1873				7
July 14	9.10 P.M.	41	Pleasant Street.	Bedding set on fire by carelessness.
„ 17	4.00 P.M.	Bell.	Sargent Street.	Hay-stack set on fire by children.
„ 20	11.00 A.M.	16	Broadway.	Burning of shavings in boiler-room.
„ 28	6.40 A.M.	65	Crescent Street.	Burning of clothing in closet.
Whole number of fires and alarms				4
Number of fires and alarms corresponding month, 1873				8
Aug. 5	8.00 P.M.	9	Thorndike St.	Burning of shavings in boiler room.
„ 8	7.35 P.M.	14	Gore Street.	Fire in gas receiver in Somerville.
„ 19	7.30 A.M.	79	Mt. Auburn St.	Burning of clothing in closet.
„ 22	1.15 A.M.	91	Montgomery St.	Building supposed to have been struck by lightning.
„ 22	1.25 A.M.	91	„ „	Building supposed to have been struck by lightning.
„ 22	10.00 A.M.	Bell.	„ „	Rekindling of ruins same fire.
„ 24	9.57 P.M.	8	Vine Street.	Bed accidentally set on fire.
„ 27	10.15 P.M.	9	Bridge Street.	Fire in fancy-glass works.
„ 31	5.00 P.M.	41	Fairmont St.	Boiling over of tallow kettle.
Whole number of fires and alarms				9
Number of fires and alarms corresponding month, 1873				11
Sept. 1	4.52 A.M.	41	Fairmont St.	Boiling over of tallow kettle.
„ 1	4.57 A.M.	41	„ „	„ „ „ „
„ 1	5.00 A.M.	41	„ „	„ „ „ „
„ 1	7.41 A.M.	6	Broadway.	Cause of fire in dwelling unknown.
„ 1	7.46 A.M.	6	„ „	„ „ „ „
„ 15	5.20 P.M.	Bell.	Main Street.	Fire on roof of foundry building.
„ 20	11.20 P.M.	59	Eliot Street.	Burning of rubbish in cellar.
„ 21	8.39 P.M.	23	Waverly Street.	Burning of small stable.
„ 21	8.43 P.M.	23	„ „	„ „ „ „
„ 26	4.57 A.M.	6	Main Street.	Burning of stable and five horses.
„ 26	5.02 A.M.	6	„ „	„ „ „ „
„ 26	5.06 A.M.	6	„ „	„ „ „ „
„ 30	6.15 P.M.	37	Pleasant Street.	Interference with fire-alarm box.
Whole number of fires and alarms				13
Number of fires and alarms corresponding month, 1873				12

MONTHLY STATEMENT OF FIRES AND ALARMS — *continued.*

Date.	Time.	Box.	Location.	Remarks.
1874.				
Oct. 3	8.30 A.M.	43	Putnam Ave.	Smoke from furnace in school-house.
" 6	7.45 P.M.	6	Third Street.	Ignition of japanning material.
" 27	4.13 A.M.	26	Main Street.	Slight fire in work-shop.
" 31	2.30 A.M.	69	Cogswell Ave.	Supposed incendiary attempt to burn a dwelling.

Whole number of fires and alarms 4

Number of fires and alarms corresponding month, 1873 . 9

Nov. 1	9.00 P.M.	79	Lake View Ave.	Supposed incendiary origin.
" 1	9.10 P.M.	82	" "	For same fire.
" 5	3.13 A.M.	25	Main " Street.	Cause of fire, defective flue.
" 8	5.15 P.M.	79	Craigie Street.	Burning of window curtain.
" 9	2.35 P.M.	9	First Street.	Burning of straw in stable.
" 11	7.30 P.M.	17	Washington St.	Fire caused by defective chimney.
" 11	10.00 P.M.	17	" "	Rekindling of same fire.
" 12	4.20 P.M.	26	State Street.	Ignition of combustibles in factory.
" 12	4.25 P.M.	26	" "	" " " "
" 12	4.28 P.M.	26	" "	" " " "
" 18	5.50 P.M.	91	North Avenue.	Fire caused by carelessness in dwelling.
" 18	5.58 P.M.	91	" "	Fire caused by carelessness in dwelling.
" 20	12.40 A.M.	59	Dunster Street.	Burning of old building.
" 23	7.15 P.M.	9	Bridge Street.	Fire in stable loft.
" 26	8.45 A.M.	14	Ninth Street.	Burning of clothing in tenement.
" 29	8.45 P.M.	72	Belmont Street.	Fire caused by defective heating apparatus.
" 29	8.50 P.M.	72	" "	Fire caused by defective heating apparatus.

Whole number of fires and alarms 17

Number of fires and alarms corresponding month, 1873 . 13

Whole number of fires and alarms for year ending Nov. 30, 1874 . 97

Total of fires and alarms for year ending Nov. 30, 1873 97

WARDS IN WHICH FIRES OCCURRED.

The following table will show the location of fire alarms by wards, from Dec. 1, 1873, to Nov. 30, 1874 :—

Ward.	Dec.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Totals.
1		2		3	2		1		1	1	1	4	15
2		6	2		7	1		1		5	1	2	25
3	2	2		3	4	1	1		4			3	20
4	2			2	1	4		1	1	7	1	4	23
5	2			2				2	3		1	4	14
Totals	6	10	2	10	14	6	2	4	9	13	4	17	97

CLASSIFICATION OF FIRES AND ALARMS.

The annexed table shows the day of the week on which fires and alarms have occurred, and the number in each month, commencing Dec. 1, 1873, and ending Nov. 30, 1874 :—

1873-74.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June	July.	Aug.	Sept.	Oct.	Nov.	Totals.
Sunday . .				3	3	1				1		5	13
Monday . .		5	1		2		2	1	2	2		2	17
Tuesday . .		1			2			2		6	2		13
Wednesday .	5			4	1	2			2	1		4	19
Thursday . .		1	1	1		3			1			5	12
Friday . . .		2		1	6			1				1	11
Saturday . .	1	1		1					4	3	2		12
Totals . . .	6	10	2	10	14	6	2	4	9	13	4	17	97

HOURS AT WHICH FIRES OCCURRED.

The annexed table shows the hour at which alarms were given for fires during the year, the fractions of time being omitted : —

1873-74.	A.M.												Total A.M.	P.M.												Total P.M.	Totals.
	1	2	3	4	5	6	7	8	9	10	11	12		1	2	3	4	5	6	7	8	9	10	11	12		
December . .											1		1					2	3						5	6	
January . .						3						1	4	1			1	1		1	1		1		6	10	
February . .														1		1									2	2	
March . . .	3						1						4	1	2		1	1				1			6	10	
April . . .	1			2				1	1				5	3				1		3		1		1	9	14	
May	1											2	3		1			1			1				3	6	
June																		1	1						2	2	
July						1					1		2				1				1				2	4	
August . . .	2						1			1			4					1		1	1	1	1		5	9	
September .				4	2		2						8					1	1		2			1	5	13	
October . .		1		1				1					3							1					1	4	
November .			1					1				1	3		1		3	3		2	2	2	1		14	17	
Totals . .	7	1	1	7	2	4	4	3	1	1	2	4	37	6	4	1	6	12	5	8	6	6	3	1	2	60	97

ADMISSIONS AND DISCHARGES.

The following changes have occurred in the membership of the Department during the year : —

Name of Company.	When Admitted.		When Discharged.	
Board of Engineers.	Richard F. Tobin.	Jan. 5, 1874.	Albert Norris.	Jan. 5, 1874.
Cambridge Engine Co., No. 1.	Francis McKinley.	Jan. 28, 1874.	Maurice F. Magraw.	Jan. 14, 1874.
" " "	Charles W. Brackett.	Mch. 18, 1874.	Hugh McNamee.	Feb. 28, 1874.
" " "	John H. Brown.	" " "	George Cooley.	" " "
" " "	James R. Bowlby.	Nov. 30, 1874.	Francis P. Scanlan.	Nov. 23, 1874.
" " "	Edward E. Keyes.	" " "	Conrad D. Kinnear.	" " "
Union Engine Co., No. 2.	Thomas Wiseman.	Dec. 1, 1873.	Jeremiah R. Hobbs.	Dec. 17, 1873.
" " "	Charles E. Conner.	Dec. 24, 1873.	Chas. A. Paine (dec'd.).	Jan. 30, 1874.
" " "	Joseph Fellows.	Feb. 18, 1874.	Joseph P. Cartwright.	Nov. 23, 1874.
" " "	Albert F. Sawyer.	Nov. 30, 1874.		
Niagara Engine Co., No. 3.	Michael Kelly.	Jan. 15, 1874.	Charles E. Berry.	Dec. 3, 1873.
" " "	Edwin Winward.	" " "	John D. De Ronde.	Jan. 15, 1874.
" " "	William Parker.	" " "	James H. Berry.	" " "
" " "			Joseph T. Smith.	Sept. 30, 1874.
" " "			Charles W. Porter.	Nov. 23, 1874.
" " "			Francis P. Carr.	" " "
Daniel Webster Engine Co., No. 4.	George E. Gilkey.	Nov. 30, 1874.	Dana R. Hovey.	" " "
P. H. Raymond Engine Co., No. 5.	Francis P. Scanlan.	Nov. 23, 1874.		
" " "	Cornelius J. Donovan.	" " "		
" " "	Charles E. Berry.	" " "		
" " "	Joseph P. Cartwright.	" " "		
" " "	Francis P. Carr.	" " "		
" " "	Charles W. Porter.	" " "		
" " "	Conrad D. Kinnear.	" " "		
" " "	Dana R. Hovey.	" " "		
" " "	John D. De Ronde.	" " "		
" " "	James Glynn.	" " "		
" " "	Charles H. Barker, Jr.	" " "		
" " "	George W. Butler.	" " "		
" " "	John Fitzgerald.	" " "		
" " "	Thomas E. Banfield.	" " "		
Franklin H. & L. Co., No. 1.	Joseph B. Farmer.	Mch. 25, 1874.	R. O. Stockbridge.	Sept. 30, 1874.
" " "	John H. Jacobs.	" " "	John H. Brown.	Mch. 18, 1874.
" " "	Warren H. Dow.	Sept. 21, 1874.	Orville W. Van Duzee.	Mch. 25, 1874.
" " "	James A. Bushee.	Oct. 26, 1874.	Lewis C. Clark.	Sept. 7, 1874.
			James R. Bowlby.	Nov. 30, 1874.

ADMISSIONS AND DISCHARGES — *continued.*

Name of Company.			When Admitted.		When Discharged.	
Mayor Bradford H. & L. Co., No. 2.	" "	"	James Dalton.	Dec. 16, 1873.	James I. Murphy.	Mch. 18, 1874.
			James J. Fleming.	" "	Wm. M. Loring (dishon- orably discharged).	Apr. 18, 1874.
			Jeremiah R. Hobbs.	" "	John D. Thompson (Re- lief Engineer).	Nov. 30, 1874.
			Richard T. Marvin.	" "		
			Thomas L. Hunter.	" "		
			Philip C. Munroe.	" "		
			James M. Keaney.	" "		
			John D. Thompson.	" "		
			John Lennon.	" "		
			Alfred F. Chadwick.	" "		
			Walter R. Marsh.	" "		
			John S. Dooris.	" "		
			William J. Stinson.	" "		
			Timothy Mahoney.	" "		
			James I. Murphy.	" "		
			James McChristal.	" "		
			George E. Ricker.	" "		
			Jacob F. Bradeen.	" "		
			Michael Cairns.	" "		
			Edward E. Allen.	" "		
			William M. Loring.	" "		
			Orville W. Van Duzee.	Mch. 26, 1874.		
			John McCarty.	Apr. 22, 1874.		
			Joseph Gormley.	Nov. 30, 1874.		
Supply Hose Carriage No. 1.			Lewis C. Clark.	Sept. 7, 1874.		
Fire-alarm Telegraph.					Thos. J. Leighton (dec.)	Apr. 14, 1874.

ACKNOWLEDGMENTS.

The Chief Engineer deems it his duty to express his thanks to the Honorable Mayor and City Council for their co-operation in the carrying out of such measures as he has had the honor of recommending.

To his Honor the Mayor, personally, I tender my heartfelt thanks for his courteous and kind treatment at all times.

The Joint Standing Committee on Fire Department, Aldermen Whitman and Bright, and Councilmen Wheeler, Howard, and Fatal, will also please accept my acknowledgments for their many favors, and for their hearty concurrence in all matters which have been suggested for the welfare and efficiency of the Department.

The Board of Engineers will also accept my thanks for the respect shown on all occasions, and for their ready and faithful responses to duty.

The several engine and truck companies are held in regard for the manner in which they have performed their duties ; and it gives me pleasure to say of them that a more prompt and efficient organization does not exist in any municipality.

Chief of Police Copeland, and those of his command, have rendered this Department valuable aid and assistance at fires, for which services I hereby express my deepest obligations.

The Chief Engineers and firemen of neighboring Fire Departments merit my fullest appreciation for their assistance at fires.

The City Clerk, City Treasurer, Clerk of Committees, and heads of Departments, together with all others who have in any manner given words of counsel or advice, or rendered aid to this Department, will accept my most heartfelt thanks for their kindly offices.

In conclusion, I can but reiterate my obligations to all persons who have testified in the slightest manner their good-will.

Respectfully submitted.

PATRICK H. RAYMOND,

Chief Engineer Cambridge Fire Department.

APPENDIX.

Committee on Fire Department.

ALDERMEN Whitman and Bright.
COUNCILMEN Wheeler, Howard, and Fatal.

Board of Engineers.

Name.	Age.	Residence.	Occupation.
Patrick H. Raymond, Chief . .	44	20 Jay Street . . .	Reporter.
Thomas J. Casey, 1st Assistant	41	173 Cambridge Street	Carver.
Richard F. Tobin, 2d ,,	30	5 Winsor Street . .	Iron Moulder.
Daniel O'Connell, 3d ,,	46	219 North Avenue .	Clerk.
John P. Farmer, Jr., 4th ,,	32	29 Mellen Street . .	Clerk.
John P. Farmer, Jr., Secretary.			

Cambridge Steam Fire Engine Company, No. 1.

House on Church Street.

Name.	No. Badge.	Age.	Occupation.
William H. Emory, <i>Foreman</i>	1	41	Printer.
Charles W. Brackett, <i>Assistant Foreman</i> . .	2	38	Book-keeper.
Edward E. Priest, <i>Engineer</i>	3	37	Engineer.
John L. Jones, Jr., <i>Fireman</i>	4	23	Printer.
Hiram W. Hooker, <i>Driver of Engine</i>	5	36	Driver.
Robert T. Hixon, <i>Driver of Hose-Carriage</i> . .	10	30	Driver.
John K. Perkins, <i>Hoseman</i>	12	25	Cabinet Maker.
Hugh T. Barker, ,, ...	14	24	Gas Fitter.
Thomas W. Jones, ,, ...	8	25	Electrotype Finisher.
John Byron, ,, ...	9	24	Painter.
Francis McKinley, ,, ...	6	26	Painter.
John H. Brown, ,, ...	13	23	Cigar Maker.
Edward E. Keyes, ,, ...	7	23	Book-binder.
James R. Bowlby, ,, ...	11	27	Blacksmith.

The engine operated by this company was built by the Amoskeag Manufacturing Company, Manchester, N.H., and is rated as second class. It is supplied with one steam cylinder 8½ inches in diameter; one double-acting vertical plunger pump 4¾ inches in diameter, with 12-inch stroke. The engine is supplied with two copper tanks, which contain a supply of fresh water, to be used

when drafting sea water. The engine, when worked to its full capacity, will discharge 400 gallons per minute.

Put in service Sept. 18, 1864.

Union Steam Fire Engine Company, No. 2.

House on Main Street, near Winsor.

Name.	No Badge.	Age.	Occupation.
William B. Cade, <i>Foreman</i>	15	40	Polisher.
William H. Foss, <i>Assistant Foreman</i>	27	34	Piano Action Maker.
Thomas Wiseman, <i>Engineer</i>	17	30	Engineer.
Amos B. Jarvis, <i>Fireman</i>	24	30	Book-binder.
John H. Walker, <i>Driver of Engine</i>	19	45	Driver.
*Joseph P. Cartwright, <i>Driver of Hose-Carriage</i>		38	Driver.
Charles E. Snow, <i>Hoseman</i>	26	34	Painter.
Arthur C. Day, "	25	37	Box Maker.
Daniel McCarty, "	21	38	Blacksmith.
James Cunningham, "	28	32	Wood Turner.
Benjamin D. Foss, "	18	38	Carpenter.
Edward Brady, "	16	28	Iron Moulder.
Charles E. Conner, "	23	23	Machinist.
Joseph Fellows, "	22	23	Clerk.
Albert F. Sawyer, "	20	31	Painter.

* Appointed Driver of Engine No. 5, Nov. 30.

The engine in charge of this company was put in service Nov. 28, 1873. The engine is of second-class construction, and was built by the Amoskeag Manufacturing Company, Manchester, N.H., where the several engines in the Department were constructed.

The boiler contains 301 brass tubes, each tube being 18 inches long and 1¼ inches in diameter. The main forcing pump, double-acting and made of brass, measures 4¼ inches in diameter, and has a stroke of 8 inches. The steam cylinders have a diameter of 6⅞ inches, and an 8-inch stroke. The engine is of improved design, and bears upon each side of the driver's seat likenesses of ex-Alderman Robert L. Sawin and ex-Councilman Richard F. Tobin, former members of the Joint Standing Committee on Fire Department.

The weight of engine with fuel and water is 6,250 pounds.

Niagara Steam Fire Engine Company, No. 3.

House on Fourth Street, near Gore.

Name.	No. Badge.	Age.	Occupation.
Thomas J. Dale, <i>Foreman</i>	32	33	Fish & Oyster Dealer.
Michael G. Collins, <i>Assistant Foreman</i> . . .	36	30	Painter.
Hiram Blood, <i>Engineer</i>	31	42	Engineer.
Elliott E. Alley, <i>Fireman</i>	30	38	Upholsterer.
James S. Casey, <i>Driver of Engine</i>	33	38	Driver.
Lorenzo H. Dale, <i>Driver of Hose-Carriage</i> . .	34	32	Driver.
John Casey, <i>Hoseman</i>	41	24	Britannia Worker.
William F. Newman, „	38	28	Wood Worker.
Edwin Winward, „	39	28	Box Maker.
William Parker, „	29	34	Carver.
Michael Kelly, „	37	35	Glass Blower.

Three vacancies in the membership of this company existed at the time of making this Report.

This engine was contracted for in 1871, and put in service Jan. 19, 1872, and is a fine and very powerful specimen of steam machinery used for the extinguishment of fires. Like all other steamers owned by the City, it was built by the Amoskeag Manufacturing Company, of Manchester, N.H. The engine is of first-class construction, and has a boiler 32 inches in diameter and 66 inches long, containing 301 brass tubes, each tube being 18 inches long and $1\frac{1}{4}$ inches in diameter.

The main forcing pump is $4\frac{3}{8}$ inches in diameter, and has a stroke of 8 inches in length. The steam cylinders measure $7\frac{3}{4}$ inches in diameter, with a stroke of piston of 8 inches. Portraits of ex-Alderman Horatio G. Parker and ex-Councilman Knowlton S. Chaffee, former members of the Committee on Fire Department, adorn the sides of the driver's seat.

The engine is complete in every particular, and, while being very beautifully ornamented and showy, is capable of discharging 600 gallons of water per minute.

A steam-circulating heater has been connected with the boiler the present year, by which steam is constantly kept up.

Daniel Webster Steam Fire Engine Company, No. 4.
House on North Avenue, near Russell Street.

Name.	No. Badge.	Age.	Occupation.
John W. Holbrook, <i>Foreman</i>	56	32	Carriage Trimmer.
Benjamin Young, <i>Assistant Foreman</i>	49	30	Carpenter.
John E. Ricker, <i>Engineer</i>	45	30	Engineer.
Sylvanus G. Griffin, <i>Fireman</i>	50	27	Machinist.
George T. Presby, <i>Driver of Engine</i>	47	32	Driver.
George E. Muzzey, <i>Driver of Hose-Carriage</i>	48	32	Driver.
Charles E. Presby, <i>Hoseman</i>	51	39	Mason.
Nathaniel W. Bunker, „	55	31	Carpenter.
John H. Cannon, „	44	26	Clerk.
James H. Presby, „	53	33	Mason.
John L. Sproul, „	54	23	Plumber.
George E. Gilkey, „	43	27	Clerk.
Abiel E. Long, „	52	29	Wheelwright.
Harmon Parsons, „	46	34	Carpenter.

The engine in charge of this company is of the double pump, second class, small size pattern, with $4\frac{1}{8}$ -inch pump cylinders, and 8-inch stroke, steam cylinders $6\frac{7}{8}$ -inch diameter, and 8-inch stroke ; and, without fuel or water, in weight 5,800 pounds. It was built by the Amoskeag Manufacturing Company, of Manchester, N.H., and put in service May 28, 1869.

P. H. Raymond Engine Company, No. 5.
House corner of Hampshire and Inman Streets.

Name.	No. Badge.	Age.	Occupation.
Francis P. Scanlan, <i>Foreman</i>	100	28	Painter.
Cornelius J. Donovan, <i>Assistant Foreman</i>	101	30	Wood Turner.
Charles E. Berry, <i>Engineer</i>	102	27	Engineer.
Charles W. Porter, <i>Fireman</i>	103	26	Clerk.
Joseph P. Cartwright, <i>Driver of Engine</i>	104	38	Driver.
Francis P. Carr, <i>Driver of Hose-Carriage</i>	105	30	Driver.
Dana R. Hovey, <i>Hoseman</i>	106	35	Clerk.
Conrad D. Kinnear, „	107	35	Clerk.
John D. DeRonde, „	108	35	Cabinet Maker.
James Glynn, „	109	23	Iron Moulder.
Charles H. Barker, Jr., „	110	21	Confectioner.
George W. Butler, „	111	35	Carpenter.
John Fitzgerald, „	112	27	Iron Moulder.
Thomas E. Banfield, „	113	32	Mason.

This engine is of the same style of construction as No. 1, and was also built by the Amoskeag Manufacturing Company, and put in service Aug. 1, 1863, under charge of Engine Company No. 2. By the purchase of a new engine for Engine Company No. 2, the old engine became a relief or spare piece of apparatus, but not, however, before it had received a new boiler, and was otherwise improved. Upon the organization of Company No. 5, it was again put in active service on Nov. 30, 1874.

The hose-carriage controlled by this company is of the old two-wheel pattern, and should be dispensed with altogether for active service. The carriage is so constructed as to impose a large share of the load upon the back of the horse, who cannot, when responding to an alarm, keep up with the engine. This style of carriage is unsuitable, and I would recommend the purchase of a four-wheel carriage.

Franklin Hook and Ladder Company, No. 1.

House in City Building, corner of Western Avenue and Green Street.

Name.	No. Badge.	Age.	Occupation.
James P. Ewell, <i>Foreman</i>	62	38	Piano-forte key Maker
Charles Emerson, <i>Assistant Foreman</i>	69	29	Confectioner.
George W. Lamson, <i>Driver of Truck</i>	59	33	Driver.
Charles S. Abbott, <i>Ladder-man</i>	65	34	Ivory Layer.
*James R. Bowlby, <i>"</i>	66	27	Blacksmith.
Charles H. Wiggin, Jr. <i>"</i>	70	26	Furniture Polisher.
Hamilton Porter, <i>"</i>	63	31	Machinist.
Elisha W. Morey, <i>"</i>	61	27	Furniture Polisher.
Albert S. Benson, <i>"</i>	72	30	Box Maker.
Charles H. Waite, <i>"</i>	73	28	Clerk.
George R. Oliver, <i>"</i>	57	23	Polisher.
John T. Mahaffey, <i>"</i>	67	29	Carpenter.
William Parks, <i>"</i>	77	30	Iron Moulder.
Daniel E. Owen, <i>"</i>	60	30	Carpenter.
William H. Lydston, <i>"</i>	68	27	Carpenter.
Clarence A. Moore, <i>"</i>	58	24	Confectioner.
Charles A. Sharon, <i>"</i>	64	25	Machinist.
John H. Jacobs, <i>"</i>	76	24	Provision Dealer.
Joseph B. Farmer, <i>"</i>	74	36	Steam & Gas Fitter.
Warren H. Dow, <i>"</i>	71	24	Box Maker.
James A. Bushee, <i>"</i>	75	29	Furniture Polisher.

* Transferred to Engine Co. No. 1.

The carriage operated by this company is drawn to fires by

horses. It has been remodelled the present year, and fully equipped with ladders of greater length, making it equal to any apparatus of its kind.

Mayor Bradford Hook and Ladder Company, No. 2.

House on Cambridge Street, corner of Portland.

Name.	No. Badge.	Age.	Occupation.
James Dalton, <i>Foreman</i>	79	37	Butcher.
James J. Fleming, <i>Assistant Foreman</i>	80	34	Iron Moulder.
Jeremiah R. Hobbs, <i>Driver of Truck</i>	81	27	Driver.
Walter R. Marsh, <i>Ladder-man</i>	83	37	Oil Clothes Maker.
Jacob F. Bradeen, „	84	41	Mason.
John S. Dooris, „	85	28	Blacksmith.
George E. Ricker, „	86	29	Carpenter.
Edward E. Allen, „	87	24	Telegraph Operator.
James McChristal, „	88	24	Teamster.
Richard T. Marvin, „	89	39	Carpenter.
Philip C. Munroe, „	91	33	Iron Moulder.
Thomas C. Hunter, „	93	34	Iron Moulder.
James M. Keaney, „	94	23	Pork Packer.
Michael Cairns, „	95	37	Carpenter.
John Lennon, „	96	26	Glass Blower.
Timothy Mahoney, „	97	26	Cabinet Maker.
William J. Stinson, „	98	26	Core Maker.
Alfred F. Chadwick, „	99	39	Carpenter.
Orville W. VanDuzee, „	82	28	Iron Moulder.
John McCarty, „	90	24	Iron Moulder.
Joseph Gormley, „	92	25	Glass Blower.

Supply Hose Carriage, No. 1.

House in City Building, corner of Green Street and Western Avenue.

Name.	No. Badge.	Age.	Occupation.
Lewis C. Clark, <i>Driver</i>	78	29	Driver.

This carriage has no company attached to it, the apparatus being, as its name implies, a supply carriage for the furnishing of extra hose to the steamers at fires, should it be required.

The carriage is of the two-wheel pattern ; and it carries a reel of

650 feet of hose, besides being fully equipped with hydrant connections, pipes, spanners, wrenches, &c.

I would recommend that a four-wheel carriage be substituted for the present clumsy and unwieldy vehicle.

RECAPITULATION.

Number of Engineers	5
Members	116
Steam Fire Engines	6
Hand Engine	1
Horses	21
Horse Hose Carriages	7
Hand Hose Carriage	1
Fuel Wagons	4
Feet of Leading Hose	12,400
Hook and Ladder Carriages	2
Ladders	50
Large Hooks with Chains	4
Hand Hooks with Poles	8
Fire Rakes	10
Pitchforks	12
Crotch Poles	14
Fire Hats	125
Reservoirs	50
Hydrants	463
Alarms of fire in the city	94
Alarms from fires out of city	3
	— 97
Loss on Buildings and Stock	\$146,084
Insurance on Losses	117,484
Total Loss	<u>\$28,600</u>

RECORD OF FIRES AND ALARMS FROM DECEMBER 1, 1873, TO NOVEMBER 30, 1874.

Day of Week.	Date.	Hour.	Box	Owners of Property.	Occupants.	Location.	Loss.	Insurance.	Apparatus present.	Remarks.
Wednesday	1873. Dec. 3	5.05 P.M.	9	Woodbury & Co. .	Woodbury & Co. .	Thorndike St.	\$250	\$250	Engines 1, 2, & 3, and H. & L. 1.	Dry-house caught fire from defective heating apparatus.
Wednesday	" 3	5.10 P.M.	9	" "	" "	" "			Engine 4.	Burning of wearing apparel, etc., alarm in Ward 5 only.
Saturday	" 6	6.00 P.M.	Bell	William Frost . .	Edward E. Rice . .	Forest Street	200	200	Engines 1 & 2, and H. & L. 1.	Tampering with fire-alarm box.
Wednesday	" 10	6.40 P.M.	46	"	"	Main Street .			Engines 1 & 4, and H. & L. 1.	Tampering with fire-alarm box.
Wednesday	" 17	6.25 P.M.	65	"	"	North Avenue			Engines 1, 2, & 3, and H. & L. 1.	Roof of laundry caught fire from sparks from chimney.
Wednesday	" 24	11.00 A.M.	36	Leonard Cox . . .	Leonard Cox . . .	Soden Street .	Trifling .			Alarm caused by smoke from chimney.
Saturday	1874. Jan. 10	5.00 P.M.	15	Unknown	Several Parties . .	Charles Street	Trifling .			The fire was under full headway before alarm was given.
Monday*	" 19	6.10 A.M.	6	Boston Stamping Co.	Boston Stamping Co.	Third Street .	45,000	31,500	Engines 1, 2, 3, & 4, and H. & L. 1.	Rekindling of ruins of previous fire.
Monday .	" 19	6.15 A.M.	6	" "	" "	" "			Engines 2 & 3, and H. & L. 1.	Fire caused by overheated furnace.
Monday .	" 19	6.20 A.M.	6	" "	" "	" "			Engines 1 & 4, and H. & L. 1.	Fire caused by drying plastering.
Monday .	" 19	7.40 P.M.	6	" "	" "	" "			Engines 1 & 2, and H. & L. 1.	Fire on roof, caused by sparks from foundry chimney.
Tuesday	" 20	8.50 P.M.	62	Mrs. Albert Morgan	Mrs. J. S. Jacobs .	Story Street .	Trifling .			Fire in counting-room caused by defective bracket chimney.
Thursday	" 22	12 29 A.M.	52	John W. Walker .	Unoccupied	Elmer Street.	275	275	Engines 2 & 3, and H. & L. 1.	Explosion of kerosene lamp in bedroom.
Monday .	" 26	4.35 P.M.	16	Fisk Heirs	Several families . .	Dock Street .	Trifling .			Alarm needlessly given.
Friday .	" 30	1.14 P.M.	2	Warren Heirs . .	Elston & Co. . . .	Bridge Street	Trifling .			Fire caused by defective flue.
Friday .	" 30	11.55 P.M.	32	Oliver Hastings . .	Several families . .	Webster Av. .	125	125	Engines 2 & 3, and H. & L. 1.	Supposed incendiary attempt to burn the building.
Thursday	Feb. 12	1.00 P.M.	32	Boynton & Co. . .	Boynton & Co. . .	Somerville .			Engines 2 & 3, and H. & L. 2.	
Monday .	" 23	3.40 P.M.	31	Unknown	Unknown	Warren Street	Trifling .			
Wednesday	Mar. 4	2.06 P.M.	71	Mrs. Ellen Murphy	Mrs. Ellen Murphy	Harvey Street	1,050	1,050	Engines 1 & 4, and H. & L. 2.	
Wednesday	" 4	2.10 P.M.	91	" "Alexander Wilson .	" "Alexander Wilson .	" "Winter Street	Trifling .			
Wednesday	" 4	10.20 P.M.	13	" "Alexander Wilson .	" "Alexander Wilson .	" "Winter Street	Trifling .			

Sunday . .	Mar. 8	1.20 A.M.	59	Thomas S. Huckins	Geo. O. Ladd & Co.	Brighton St. .	3,700	2,975	Engines 1, 2, 3, & 4, and H. & L. 2.	Partial destruction of planing-mill. Cause of fire unknown. A scarcity of water hindered the operations of the firemen.
Sunday . .	" 8	1.25 A.M.	59	" " "	" " "	" "			Engines 2 and 3.	Destruction of workshop at State Prison.
Sunday . .	" 8	1.30 A.M.	59	" " "	" " "	" "			Engines 2 & 3, and H. & L. 2.	Shavings set on fire by sparks from chimney.
Saturday . .	" 21	1.18 P.M.	2	State of Massachusetts.	State of Massachusetts.	Charlestown .			Engines 1, 2, & 3, and H. & L. 2.	Defective chimney cause of fire.
Wednesday	" 25	5.20 P.M.	26	Allen & Endicott .	Jaynes & Co. . . .	Main Street .	Trifling .		Engines 2 & 3, and H. & L. 2.	Defective heating apparatus in dry-house.
Thursday . .	" 26	7.31 A.M.	37	Anthony Cunio . .	Several families . .	Pleasant St. .	40	40	Engines 2 & 3, and H. & L. 2.	Slight fire on roof, caused by sparks from chimney.
Friday . .	" 27	4.50 P.M.	9	Woodbury & Co. .	Woodbury & Co. .	Thorndike St.	Trifling .		Engines 2 & 3, and H. & L. 2.	Fire caused by defective flue. Two women suffocated. Spoken of elsewhere.
Wednesday	Apr. 1	8.00 A.M.	32	Cornelius Devine .	Several families . .	Webster Av. .	Trifling .		Engines 1 & 4, and H. & L. 2.	Burning of clothing in closet.
Tuesday . .	" 7	4.30 A.M.	17	Frederick Merriek .	" "	Portland St. .	700	700	Engines 1, 2, & 3, and H. & L. 2.	Burning of meat in kettle on stove.
Tuesday . .	" 7	4.35 A.M.	17	" "	" "	" "			Engines 1, 2, & 3, and H. & L. 2.	Fire caused by carelessness in a work-room.
Sunday . .	" 12	9.04 A.M.	79	Owen Carney . . .	Owen Carney . . .	Brown Street	Trifling .		Engines 2 & 3, and H. & L. 2.	Tenement house, supposed to have been set on fire.
Monday . .	" 13	9.15 P.M.	36	Robert Douglass .	Charles H. Blake .	Main Street .	Trifling .		Engines 1, 2, & 3, and H. & L. 2.	Defective heating apparatus in dry-house.
Friday . .	" 17	7.04 A.M.	16	Mieah Dyer, Jr. . .	J. J. Gray & Co. .	Broadway . .	40,000	3,000	Engines 1, 2, 3, & 4, and H. & L. 2; also Engines from Boston and Somerville.	Fire originated in hay-loft from some unknown cause.
Friday . .	" 17	7.10 A.M.	16	" " "	" " "	" "			Engines 2 & 3, and H. & L. 2.	Building set on fire by some malicious person.
Friday . .	" 17	7.15 A.M.	16	" " "	" " "	" "	1,055	1,055	Engines 1, 2, 3, & 4, and H. & L. 2; also Hose 3, of Somerville.	Tallow rendering establishment — boiling over of hot grease.
Sunday . .	" 26	1.20 A.M.	59	Benj. C. Weld . . .	Unoccupied.	Dunster Street	Trifling .		Engines 1, 2, & 4, and H. & L. 2.	Defect in heating apparatus in photographic gallery.
Thursday . .	May 7	12.35 A.M.	37	Charles Cooper . .	Chas. Cooper & Son	River Street .	5,100	2,200	Engines 1, 2, 3, & 4, and H. & L. 2.	Sparks from chimney set roof on fire.
Thursday . .	" 7	12.40 A.M.	37	" "	L. Arkerson and W. M. Ross	" "			Engines 1, 2, & 3, and H. & L. 2.	Explosion of kerosene lamp.
Wednesday	" 13	1.30 A.M.	36	Rufus Lamson . .	G. K. Warren & Co.	Main Street .	1,150	1,159	Engines 2 & 3, and H. & L. 2.	
Wednesday	" 13	2.45 P.M.	14	Binney Heirs . . .	Barbour & Hodges	" "	329	329	Engines 1, 2, & 3, and H. & L. 2.	
Thursday . .	" 21	5 05 P.M.	48	Rufus Lamson . .	Doe & Hunnewell .	Gore Street .	Trifling .		Engines 1, 2, & 3, and H. & L. 2.	
					Several families . .	Tremont St. .				
Amounts carried forward . . .							\$98,974	\$44,849		

RECORD OF FIRES AND ALARMS FROM DECEMBER 1, 1873, TO NOVEMBER 30, 1874. — *Continued.*

Day of Week.	Date.	Hour.	Box	Owners of Property.	Occupants.	Location.	Loss.	Insurance.	Apparatus present.	Remarks.
Sunday . .	1874. May 24	2.45 P.M.	Bell	B. P. Clark . . .	<i>Amounts</i> Abraham Cohen . .	<i>brought forward</i> Main Street .	\$98,974 Trifling .	\$44,849	Engine 2.	Burning of wearing apparel in chamber.
Monday . .	June 1	6.56 P.M.	9	Woodbury & Co. .	Woodbury & Co. .	Thorndike St.	Trifling .		Engines 2 & 3, and H. & L. 2.	Defective heating apparatus in dry-house.
Monday . .	" 15	5.52 P.M.	43	F. R. Trow . . .	Several families . .	Flagg-st. C'trt.	70	70	Engines 1 & 2, and H. & L. 2	Fire caused by a defective flue.
Tuesday . .	July 14	9.24 P.M.	41	Mrs. Ann Watts . .	Mrs. Ann Watts . .	Pleasant St. .	76	76	Engines 1 & 2, and H. & L. 2.	Bedding set on fire through carelessness. Hose carriage No. 1 was up-set while proceeding to the fire, and Assistant Foreman Scaulan was thrown from the seat and somewhat injured.
Friday . .	" 17	4 00 P.M.	Bell	Unknown	Unknown	Sargent Street	Trifling .		Engine 4.	Haystack set on fire by children.
Monday . .	" 20	10.48 A.M.	16	Sylvester Tower . .	Sylvester Tower . .	Broadway . .	Trifling .		Engines 2 & 3, and H. & L. 2.	Burning of shavings in boiler room. While proceeding to the fire a collision occurred between Engine 3, Truck 2, and Hose 2; each of which vehicles sustained injuries.
Tuesday . .	" 28	6.40 A.M.	65	Charles Eutebrouk .	Charles Eutebrouk .	Crescent St. .	50	50	Engines 1 & 4, and H. & L. 2.	Burning of clothing in closet.
Wednesday	Aug. 5	8.00 P.M.	9	Woodbury & Co. .	Woodbury & Co. .	Thorndike St.	Trifling .		Engines 2 & 3, and H. & L. 2.	Slight fire in boiler-room connected with factory.
Saturday . .	" 8	7.35 P.M.	14	J. P. Squire & Co. .	J. P. Squire & Co. .	Somerville .			Engines 2 & 3, and H. & L. 2.	Fire in gas-house connected with works.
Wednesday	" 19	7.30 A.M.	79	Patrick Conery . .	Patrick Conery . .	Mt. Aub'n St.	Trifling .		Engines 1 & 4, and H. & L. 2.	Burning of clothing in closet.
Saturday . .	" 22	1.09 A.M.	91	S. G. Reed	Various parties . .	Montgomery Street.	5,000	2,000	Engines 1, 2, & 4, H. & L. 1 & 2, and Hose 4, Somerville.	Building supposed to have been struck by lightning and set on fire.
Saturday . .	" 22	1.15 A.M.	91	" "	" "	" "	*		Engine 4.	Rekindling of ruins.
Saturday . .	" 22	10.00 A.M.	Bell	" "	" "	" "	Trifling .		Engines 2 & 3, and H. & L. 2.	Bed set on fire during a disturbance.
Monday . .	" 24	9 57 P.M.	8	John McNeil . . .	Several families . .	Vine Street. .			Engines 2 & 3, and H. & L. 2.	Building used for the manufacture of glass. Cause of fire unknown.
Thursday . .	" 27	10.08 P.M.	9	Thomas Stevenson .	P. J. McElroy . .	Bridge Street	1,587	887	Engines 2 & 3, and H. & L. 2.	Boiling over of kettle in rendering-establishment.
Monday . .	" 31	5.06 P.M.	41	William Cooper . .	William H. Cooper	Fairmont St.	Trifling .		Engines 1 & 2, and H. & L. 1.	Fire again occurred on same premises from some unexplained cause, re-
Tuesday . .	Sept. 1	4.52 A.M.	41	" "	" "	Fairmont St.	4,100	1,000	Engines 1, 2, 3, & 4, and H. & L. 1.	
Tuesday . .	" 1	4.57 A.M.	41	" "	" "	" "				

Tuesday	Sept. 1	5.00 A.M.	41	"	"	"	"	"	"	600	Engines 1, 2, & 3, and H. & L. 1, and H. & L. 2.	Partial burning of dwelling-house. Cause of fire unknown.
Tuesday	"	7.41 A.M.	6	Wm. Howlett & Chs.	"	"	"	"	"	600	Engines 1, 2, & 3, and H. & L. 1, and H. & L. 2.	Partial burning of dwelling-house. Cause of fire unknown.
Tuesday	"	7.46 A.M.	6	"	"	"	"	"	"		Engines 2, and H. & L. 2.	Fire on roof of foundry building, caused by sparks from chimney.
Tuesday	"	5.20 P.M.	Bell	Allen & Endieott	"	"	"	"	"		Engines 1, 2, & 4, and H. & L. 1.	Burning of rubbish in cellar of tenement.
Sunday	"	11.20 P.M.	59	Mrs. Curran	"	"	"	"	"		Engines 1, 2, & 3, and H. & L. 1.	Fire originated in stable, from an unknown cause.
Monday	"	8.39 P.M.	23	Joseph A. Willard	"	"	"	"	"	1,000	Engines 1, 2, & 3, and H. & L. 1.	Building used by several parties for stable and storage purposes.
Monday	"	8.43 P.M.	23	"	"	"	"	"	"		Engines 1, 2, 3, & 4, and H. & L. 1	
Saturday	"	4.57 A.M.	6	Horace O. Bright	"	"	"	"	"	1,500	Engines 1, 2, 3, & 4, and H. & L. 1	
Saturday	"	5.02 A.M.	6	"	"	"	"	"	"		Engines 1 & 2, and H. & L. 1.	Fire-alarm box maliciously tampered with.
Saturday	"	5.06 A.M.	6	"	"	"	"	"	"		Engines 1 & 2, H. & L. 1, and Supply Hose.	Smoke from furnace in building mistaken for a fire.
Wednesday	"	6.15 P.M.	37	"	"	"	"	"	"		Engines 2 & 3, H. & L. 1 & 2, and Supply Hose.	Ignition of japanning material.
Saturday	Oct. 3	8.30 A.M.	43	City of Cambridge	"	"	"	"	"		Engines 2 & 3, H. & L. 1 & 2, and Supply Hose.	Fire in washing-machine factory. Cause unknown.
Tuesday	"	7.45 P.M.	6	Boston Stamping Co.	"	"	"	"	"	140	Engines 1 & 4, and H. & L. 1.	Supposed ineendary attempt to burn a dwelling.
Tuesday	"	4.13 A.M.	26	Howe Heirs	"	"	"	"	"	250	Engines 1, 2, & 4, H. & L. 1, and Supply Hose.	Supposed incendiary origin, the building burned being an uncompleted dwelling-house.
Saturday	"	2.30 A.M.	69	Benjamin Rogers	"	"	"	"	"	3,092	Engines 2 & 3, H. & L. 1, and Supply Hose.	Alarm given for same fire.
Sunday	Nov. 1	9.00 P.M.	79	Thomas Burston	"	"	"	"	"		Engines 2 & 3, H. & L. 1, and Supply Hose.	Fire caused by putting stove-pipe in chimney having no open flue connection.
Sunday	"	9.10 P.M.	82	Edward White	"	"	"	"	"		Engines 1 & 4, H. & L. 1, and Supply Hose.	Burning of window curtain.
Thursday	"	3.08 A.M.	25	"	"	"	"	"	"		Engines 2 & 3, H. & L. 1, and Supply Hose.	
Sunday	"	5.15 P.M.	79	E. N. Horsford	"	"	"	"	"		Engines 2 & 3, H. & L. 2, and Supply Hose.	Burning of straw in stable, set on fire by sparks from blacksmith's forge.
Monday	"	2.35 P.M.	9	U. J. Daily	"	"	"	"	"		Engines 2 & 3, H. & L. 1 & 2, and Supply Hose.	Fire caused by a defect in chimney.
Wednesday	"	7.30 P.M.	17	Elizabeth Holden	"	"	"	"	"	450	Engines 2 & 3, H. & L. 1 & 2, and Supply Hose.	Alarm given for rekindling of above fire.
Wednesday	"	9.48 P.M.	17	"	"	"	"	"	"		Engines 2 & 3, H. & L. 1 & 2, and Supply Hose.	
Amounts carried forward . .										\$119,572	\$55,997	

RECORD OF FIRES AND ALARMS FROM DECEMBER 1, 1873, TO NOVEMBER 30, 1874. — *Continued.*

Day of Week.	Date.	Hour.	Box	Owners of Property.	Occupants.	Location.	Loss.	Insurance.	Apparatus present.	Remarks.
Thursday .	1874. Nov. 12	4.20 P.M.	26	J. D. Osborn and others	<i>Amounts</i> J. D. Osborn (loss declined to be given)	<i>brought forward</i> State Street .	\$119,572	\$55,997	Engines 1, 2, 3, & 4, H. & L. 1 & 2, and Supply Hose.	Fire originated in apartments in fourth story, used for the manufacture of picture frames. Edwin Winward and John Casey, hose-men of Engine 3, were struck by falling coving while standing on a ladder. Winward was thrown to the ground, and sustained the breakage of two ribs. Casey received slight bruises.
Thursday .	12	4.25 P.M.	26	" " "	John Schwamb . .	" "	9,500	7,200		Roof of dwelling-house burnt off.
Thursday .	12	4.28 P.M.	26	" " "	George Happ . . .	" "	3,000			Fire caused by carelessness in carrying lighted lamp into closet.
Wednesday	"	5 50 P.M.	91	[bridge Samuel F. Wood-	Several parties . .	North Avenue	1,800	1,500	Engines 1, 2, & 4, H. & L. 1, Supply Hose, and Hose 4 of Somerville.	Burning of a dilapidated building.
Wednesday	18	5.58 P.M.	91	" " "	" "	" "			Engines 1, 2, & 4, H. & L. 1, and Supply Hose.	Fire of probable incendiary origin.
Friday . .	"	12.30 A.M.	59	Benj. C. Weld . .	Unoccupied . . .	Dunster Street	Trifling .		Engines 2 & 3, H. & L. 2, and Supply Hose.	Fire in stable loft; supposed to have been maliciously placed there.
Monday . .	"	7.10 P.M.	9	C. H. Kennison . .	C. H. Kennison . .	Bridge Street	Trifling .		Engines 2 & 3, H. & L. 2, and Supply Hose.	Burning of clothing in tenement house.
Thursday .	"	9.02 A.M.	14	Charles Linnehan .	Several parties . .	Ninth Street .	Trifling .		Engines 2 & 3, H. & L. 2, and Supply Hose.	Fire in currier's shop, caused by defective heating apparatus.
Sunday . .	"	8.45 P.M.	72	S. G. Reed	Low & Knight . .	Belmont St. .	7,100	7,100	Engines 1, 2, & 4, H. & L. 1, Supply Hose, and Hose 4, of Somerville.	
Sunday . .	"	8.50 P.M.	72	" "	" "	" "	\$144,747	\$75,572		

HYDRANTS.

LOCATED IN WARD ONE.

- Appleton Street, corner Highland.
 Ash Street, corner New.
 Baldwin Street, corner Baldwin Place.
 Banks Street, corner Flag.
 Banks Street, corner Cowperthwaite.
 Banks Street, corner Grant.
 Brattle Street, opposite the estates of Messrs. Longfellow and Hastings.
 Brattle Street, corner Ash.
 Brattle Street, corner Hilliard.
 Brattle Street, corner University Press estate.
 Brattle Street, corner Lowell.
 Brattle Street, corner Fresh Pond Lane.
 Brattle Street, opp. Mt. Auburn Greenhouse.
 Brattle Street, front of Mrs. Wyeth's estate.
 Brattle Street, near Coolidge Lane.
 Brattle Street, corner Willard.
 Brattle Street, corner Story.
 Brattle Street, corner Channing.
 Brattle Street, cor. of Lakeview Avenue.
 Broadway, junction Cambridge Street.
 Broadway, corner Prescott Street.
 Broadway, corner Trowbridge Street.
 Broadway, corner Quincy Street.
 Broadway, corner Ware Street.
 Broadway, corner Ellery Street.
 Buckingham Street, opposite Stevens's barn.
 Cambridge Street, corner Trowbridge.
 Cambridge Street, front Scientific Sch.
 Cambridge Street, corner Sumner.
 Cambridge Street, corner Baldwin.
 Cambridge Street, corner Quincy (post).
 Cambridge Street, opp. Felton (post).
 Chauncy Street, 500 feet from North Avenue.
 Church Street, corner Palmer.
 Concord Avenue, junction of Waterhouse Street.
 Concord Avenue, corner Sparks Street.
 Concord Avenue, opp. Craigie Street.
 Concord Avenue, corner Follen (post).
 Craigie Street, midway.
 Craigie Street, near corner Sparks.
 De Wolf Street, near Cowperthwaite.
 Divinity Avenue, opposite Museum.
 Dunster Street, corner South.
 Dunster Street, corner Mt. Auburn.
 Eliot Street, opposite Bennett.
 Ellery Street, corner Main.
 Ellery St., east side, midway between Broadway and Cambridge Street.
 Everett Street, south side, midway between North Avenue and Oxford St.
 Fayerweather Street, corner Brattle.
 Fayerweather Street, opp. Reservoir.
 Foster Street, corner Brown.
 Garden Street, near Chauncy (post).
 Garden Street, corner Mason.
 Garden Street, corner Wallace.
 Grant Street, corner De Wolf.
 Harvard Square, opp. Charles River Bank (post).
 Harvard Square, between rails of R.R. track.
 Harvard Street, corner Remington.
 Harvard Street, opp. Harvard Block.
 Kirkland St., near Baldwin, south side.
 Kirkland Street, corner Trowbridge, south side.
 Kirkland Street, cor. Irving, south side.
 Kirkland Street, cor. Sumner, south side.
 Kirkland Street, cor. Quincy, south side.
 Kirkland Street, opp. Memorial Hall.
 Lakeview Avenue, 500 feet from Brattle Street.
 Langdon Street, in elbow (post).
 Linden Street, cor. of Harvard (post).
 Main Street, junction of Harvard.
 Main Street, corner Trowbridge.
 Main Street, opposite Bay.
 Main Street, near Baptist Church.
 Mellen Street, corner Oxford.
 Mill Street, corner Charles River.
 Mount Auburn Street, corner Brighton (post).
 Mt. Auburn Street, corner Brewer.
 Mt. Auburn Street, opp. Athens.
 Mt. Auburn and Bow Streets.
 Mt. Auburn Street, opp. De Wolf.
 Mt. Auburn Street, 200 feet west Cemetery gate, inside enclosure.
 Mt. Auburn Street, corner Willard.
 Mt. Auburn Street, corner Sparks.
 Mt. Auburn Street, opp. McDonald's Marble Works.
 Mt. Auburn Street, near R.R. Stables, in Belmont.
 Mt. Auburn Street, near Lowell (post).

WARD ONE. — *Continued.*

Mt. Auburn Street, cor. Dunster (post).	Oxford Street, near Jarvis.
Mt. Auburn Street, cor. Holyoke (post).	Oxford Street, corner Everett.
Mt. Auburn Street, corner of Athens (post).	Phillip's Place, corner Berkeley Street.
Mt. Auburn Street, cor. Banks (post).	Prescott Street, corner Harvard.
Mt. Auburn Street, cor. De Wolf (post).	Putnam Avenue, corner Western Avenue.
Murray Street, near Charles River.	Putnam Avenue, cor. Flagg St. (post.)
North Avenue, corner Chauncy Street.	Putnam Avenue, opp. Putnam Place (post).
North Avenue, corner Shepard Street.	Sparks Street, corner Foster.
North Avenue, corner Holmes Place.	Sparks Street, opposite Chas. T. Russell's.
North Avenue, corner Jarvis Street.	Waterhouse Street, opp. Follen (post).
North Avenue, front of burial-ground (post).	Wendell Street, near Carver (post).
North Avenue, cor. Church St. (post).	Worthington Street, near Engine-house
North Avenue, cor. Garden St. (post).	Water Works (post).

LOCATED IN WARD TWO.

Amory Street, corner Summer.	Cambridge Street, corner Prospect.
Antrim Street, near Broadway.	Cambridge Street, corner Tremont.
Antrim Street, near Cambridge (post).	Cambridge Street, opposite Fayette.
Antrim Street, midway (post).	Cambridge Street, north side, near junc. of Hampshire and Cambridge.
Austin Street, corner Essex (post).	Cambridge Street, opp. head of Maple Avenue.
Austin Street, corner Prospect (post).	Cambridge Street, corner McCabe.
Austin Street, corner Temple (post).	Cambridge Street, corner Elm (post).
Bigelow Street, midway between Main and Harvard.	Cambridge Street, corner Winsor (post).
Brewery Street, near Hastings (post).	Cambridge Street, near Mr. Rafferty's house (post).
Bristol Street, corner of Portland (post).	Cambridge Street, nearly opp. Highland Avenue (post).
Broadway, corner Highland Avenue.	Centre Street, opp. Dana School-house.
Broadway, junction Main Street.	Columbia Street, corner Washington.
Broadway, corner Hancock Street.	Columbia Street, corner Lincoln.
Broadway, corner Antrim Street.	Columbia Street, corner Market.
Broadway, corner Tremont Street.	Columbia Street, corner Hampshire.
Broadway, corner Elm Street.	Columbia Street, corner Harvard.
Broadway, corner Dock Street.	Davis Street, corner Broadway.
Broadway, corner Dana Street.	Elm Street, corner Market.
Broadway, corner Ellsworth Avenue.	Essex Street, westerly side, midway between Harvard and Austin.
Broadway, corner Fayette Street.	Fayette Street, 500 feet from Broadway.
Broadway, corner Amory Street.	Hampshire Street, cor. Portland (post).
Broadway, corner Norfolk Street.	Hampshire Street, near Somerville line (post).
Broadway, corner Boardman Street.	Harvard Street, corner Pine.
Broadway, junction Hampshire Street.	Harvard Street, corner Hancock.
Broadway, opp. Thayer's Laboratory.	Harvard Street, corner Dana.
Broadway, near Broadway House.	Harvard Street, corner Clark.
Broadway, corner Clark Street (post).	Harvard Street, corner Moore.
Broadway, corner Third Street (post).	Harvard Street, corner Norfolk.
Broadway, corner Davis Street (post).	Harvard Street, corner Portland.
Broadway, cor. Brewery Street (post).	Harvard Street, corner Brewery.
Broadway, opp. Mason & Hamlin's Building (post).	Harvard Street, corner Clinton.
Broadway, near Sixth Street (post).	
Broadway, corner Pioneer Street (post).	
Cambridge Street, corner Harding.	
Cambridge Street, corner Norfolk.	
Cambridge Street, corner Willow.	

WARD TWO. — *Continued.*

Highland Avenue, east side, midway.
 Houghton Street, corner Bolton, in
 Somerville.
 Hunting Street, 400 ft. from Cambridge.
 Inman Street, near Austin.
 Inman Street, corner Harvard.
 Inman Street, corner Broadway.
 Inman Street, corner Summer.
 Jefferson Street, corner Harding.
 Main Street, corner Lee.
 Main Street, corner Hancock.
 Main Street, corner Dock.
 Main Street, corner Essex.
 Main Street, opposite Pleasant.
 Main Street, corner Bigelow.
 Main Street, junction Harvard.
 Main Street, corner Pioneer (post).
 Main Street, opp. Rawson & Hittinger's.
 Maple Ave., midway between Broad-
 way and Cambridge Street.
 Market Street, corner Union.
 Moore Street, head of Hastings.
 Norfolk Street, corner Hampshire.
 Norfolk Street, corner Worcester.
 Norfolk Street, head of Washington.
 Oak Street, west side, near Somerville
 line.
 Plymouth Street, corner York.

Prospect Street, opposite B. Tilton's.
 Prospect Street, corner Broadway.
 Prospect Street, corner Hampshire.
 Prospect Street, corner Main.
 Prospect Street, corner Gardner.
 South Street, opp. Willow, Somerville.
 South Street, corner Gore, Somerville.
 Tremont Street, near Wellington's
 house.
 Tremont Street, near Cambridge.
 Union Street, corner Hampshire.
 Ward Street, cor. Horace, Somerville.
 Washington Street, corner Clark.
 Webster Avenue, corner Elm.
 Webster Avenue, corner Bristol.
 Webster Avenue, corner Winsor.
 Webster Avenue, corner Hampshire.
 Webster Avenue, corner Plymouth.
 Webster Avenue, corner Cambridge
 Street (post).
 West Boston Bridge.
 West Boston Bridge.
 Winsor Street, corner Lincoln.
 Winsor Street, corner Hampshire.
 Winsor Street, corner Washington.
 Winsor Street, near Somerville line
 (post).
 Winsor Street, corner Broadway (post).

LOCATED IN WARD THREE.

Bridge Street, corner Prison Point.
 Bridge Street, corner Short.
 Bridge Street, corner Water.
 Bridge Street, opp. Bay State Glass-
 house.
 Bridge Street, north side, opp. Braman,
 Shaw, and Co's.
 Bridge Street, opp. Fourth (post).
 Bridge Street, between Short and Water
 (post).
 Bridge Street, near Cambridge (post).
 Bridge Street, corner Water (post).
 Bridge Street, corner East (post).
 Cambridge Street, opposite First.
 Cambridge Street, corner Carson.
 Cambridge Street, corner Daily's Alley.
 Cambridge Street, corner Third.
 Cambridge Street, junction Bridge St.
 Cambridge Street, corner Sixth.
 Cambridge Street, near Railroad Cross-
 ing (post).
 Cambridge Street, opp. Seventh (post).
 Cambridge Street, opposite No. 141
 (post).
 Cambridge Street, near Third (post).
 Cambridge Street, cor. Fourth (post).
 Charles Street, corner Fourth.
 East Street, corner North (post).

Eighth Street, corner Cambridge.
 Fifth Street, corner Charles.
 Fifth Street, corner Spring.
 Fifth Street, corner Cambridge.
 Fifth Street, corner Gore.
 Fourth Street, corner Winter.
 Fourth Street, corner Bridge.
 Fourth Street, corner Cambridge.
 Fourth Street, corner Vine.
 Fourth Street, corner Thorndike.
 Gore Street, corner Fourth.
 Gore Street, corner Carson (post).
 Gore Street, corner Seventh (post).
 Jefferson Street, corner Warren.
 Munroe Street, corner Third (post).
 North Street, corner East.
 North Street, near Glass Co.'s cutting-
 shop.
 Otis Street, corner First.
 Otis Street, corner Third.
 Otis Street, corner Seventh.
 Otis Street, corner Ninth.
 Prison Point Street, 50 feet north of
 Ice Sheds.
 Prison Point Street, on R.R. track, 300
 feet from street.
 Prison Point Street, on R.R. track, 600
 feet from street.

WARD THREE. — *Continued.*

Prison Point Street, 400 ft. from Bridge Street.
 Prison Point Street, near Bridge (post).
 Second Street, corner Thorndike.
 Second Street, corner Otis.
 Second Street, corner Cambridge.
 Sixth Street, corner Gore.
 Sixth Street, corner Potter.
 Sixth Street, corner Charles (post).
 Spring Street, corner Second.
 Spring Street, corner Third.
 Spring Street, corner Fourth.
 Third Street, corner Winter.
 Third Street, corner Vine.

Third Street, near Charles.
 Third Street, corner Walker Place.
 Third Street, corner Bridge (post).
 Third Street, corner of Potter.
 Thorndike Street, corner Sixth.
 Thorndike Street, corner Fifth.
 Thorndike Street, near Woodbury's Mill (post).
 Thorndike Street, corner Second (post).
 Vine Street, corner Fifth.
 Vine Street, corner Sixth.
 Water Street, near Sugar-house.
 Yard of J. P. Squire & Co. (post).

LOCATED IN WARD FOUR.

Austin Street, corner Douglass (post).
 Austin Street, corner Norfolk (post).
 Blackstone St., west side, 100 ft. from Avenue.
 Brookline Street, corner Allston.
 Brookline Street, corner Hamilton.
 Brookline Street, corner Valentine.
 Brookline Street, corner Putnam Ave.
 Brookline Street, corner Erie.
 Brookline Street, corner Franklin.
 Brookline Street, corner Chestnut.
 Brookline Street, near Henry (post).
 Cherry Street, opposite Eaton.
 Chestnut Street, corner Pearl.
 Columbia Street, corner Austin.
 Franklin Street, corner Soden.
 Franklin Street, corner Hancock.
 Franklin Street, corner Bay.
 Franklin Street, near the hill.
 Franklin Street, corner Sidney.
 Franklin Street, corner Magazine.
 Franklin Street, near Putnam Avenue (post).
 Front Street, junction State Street.
 Front Street, corner Columbia (post).
 Green Street, corner Bay.
 Green Street, opposite Vernon.
 Green Street, corner Putnam Avenue.
 Hews Street, corner of Putnam Avenue.
 Kinnaird Street, corner Bay.
 Kinnaird Street, cor. Putnam Avenue.
 Lincoln Street, corner Fairmont (post).
 Lincoln Street, corner Somerset (post).
 Magazine Street, corner Cottage.
 Magazine Street, cor. Putnam Avenue.
 Magazine Street, corner Warland.
 Magazine Street, corner Auburn.
 Magazine Street, corner Park.
 Magazine Street, corner Upton.
 Magazine Street, opp. Hamilton.
 Magazine Street, corner Florence.
 Main Street, corner Columbia.
 Main Street, corner Winsor.

Main Street, opp. Brooks's Buildings.
 Main Street, corner Norfolk.
 Main, junction Austin Street.
 Main Street, north side, opp. Kennedy's Bakery.
 Main Street, corner Washington.
 Main Street, corner Brewery.
 Main Street, corner Portland.
 Pearl Street, corner Lake.
 Pearl Street, corner Putnam Avenue.
 Pearl Street, corner Perry.
 Pearl Street, corner Cottage.
 Pearl Street, corner Auburn.
 Pleasant Street, corner Upton.
 Pleasant Street, corner Green.
 Pleasant Street, cor. Putnam Avenue.
 Pleasant Street, corner Somerset.
 Pleasant Street, corner Park.
 Pleasant Street, corner Prince.
 Pleasant Street, corner Pleasant Place.
 Pleasant Street, corner Chestnut.
 Pleasant Street, corner Franklin (post).
 Putnam Avenue, corner Putnam Place.
 Putnam Ave., cor. Walnut Court (post).
 River Street, corner Franklin.
 River Street, opposite Cottage.
 River Street, opposite Laurel.
 River Street, corner Blackstone.
 River Street, opposite Fairmont.
 School Street, in the elbow.
 School Street, corner Clark.
 Sidney Street, corner Allston.
 Sidney Street, corner Putnam Avenue.
 Sidney Street, corner Chestnut.
 Soden Street, corner Western Avenue.
 Washington Street, near Brewery.
 Washington Street, cor. Brewery (post).
 Washington Street, cor. Portland (post).
 Washington Street, cor. Moore (post).
 Waverly Street, opposite Willard's.
 Western Ave., corner Howard Street.
 Western Avenue, cor. Kinnaird Street.
 Western Avenue, corner Jay Street.

LOCATED IN WARD FIVE.

Arlington Street, 500 feet from North Avenue.

Beech Street, east side, 20 feet from Orchard.

Cedar Street, corner Spruce.

Cedar Street, opposite Norris.

Cedar Street, opposite Green-house.

Concord Avenue, cor. Madison Street.

Concord Avenue, opp. Bond Street.

Concord Avenue, cor. Walden Street.

Concord Avenue, opp. Eames's Estate.

Cogswell Avenue, cor. Mead Street.

Crescent Avenue, corner Raymond.

Crescent Avenue, cor. Lambert Avenue.

Crescent Street, cor. Sacramento (post).

Donnell Street, corner Garden.

Dublin Street, 525 ft. from Spruce.

Dublin Street, 620 ft. from Walden.

Dublin Street, corner Walden.

Dublin Street, corner Sargent.

Dublin Street, corner Bolton.

Fairfield Street, opp. Mr. Whitney's.

Garden Court, corner Dublin Street.

Garden Street, opposite Bond.

Harvey Street, opposite Montgomery.

Hollis Street, in the elbow.

Hubbard Avenue, opp. Brick Block.

Hubbard Avenue, cor. Raymond Street.

Hubbard Street, near Walden.

Hubbard Street, corner Raymond.

Lambert Avenue, opp. R. R. office.

Lambert Avenue, cor. Shawmut Ave. (post).

Linnæan Street, corner Avon.

Linnæan Street, corner Bowdoin.

Linnæan Street, corner Raymond.

Milk Street, corner White.

Milk Street, near Somerville line (post).

North Avenue, near R.R. Bridge.

North Avenue, corner Cogswell Ave.

North Avenue, corner Allen Street.

North Avenue, corner Dover Street.

North Avenue, 300 ft. west of Tannery.

North Avenue, cor. Sacramento Street.

North Avenue, opp. Linnæan Street.

North Avenue, corner Chester Street.

North Avenue, corner Arlington Street.

North Avenue, corner Rice Street.

North Avenue, corner Cedar Street.

North Avenue, opposite Tannery.

North Avenue, near Walcott Richardson's gate.

North Avenue, corner Beech.

North Avenue, cor. Frank Street (post).

North Avenue, corner Day Street.

North Avenue, near Blake's Blacksmith Shop (post).

Norton Street, midway.

Orchard Street, opp. Tenney Court.

Oxford Street, corner Forest.

Oxford Street, opposite Eustis Court.

Oxford Street, corner Sacramento.

Raymond Street, south side, near Mr. Dresser's Estate, two.

Reed Street, 250 ft. from Harvey.

Reed Street, opposite School-house.

Rice Street, opposite L. L. Cushing's.

Roseland Street, corner Frost.

Shepard Street, corner Avon.

Spruce Street, corner Hollis.

Spruce Street, corner Sargent.

Spruce Street, corner Montgomery.

Spruce Street, corner North Avenue.

Spruce Street, opposite School-house.

Spruce Street, corner Clay.

Spruce Street, corner Clifton.

Tuttle Street, opposite Ladd's Barn.

Walden Street, opposite Mead.

Walden Street, cor. Hubbard Avenue.

Wallace Street, in the elbow.

Washington Avenue, corner Dexter.

Washington Avenue, opposite Paper Street.

Wyeth Street, corner Garden.

RESERVOIRS.

LOCATED IN WARD ONE.

Bow Street, centre of Square.
 Brighton Street, corner Eliot.
 Cambridge Street, nearly opposite Summer.
 College Yard.
 Garden Street, north end Appian Way.
 Junction Garden Street and Concord Avenue, opposite Arsenal.

Kirkland Street, opposite Oxford.
 Main Street, corner Dana.
 Mount Auburn Street, opposite the Church.
 Prescott Street, near J. D. Green's Barn.
 Square. front of house of late Dr. Holmes.

LOCATED IN WARD TWO.

Austin Street, between Temple and Inman.
 Broadway, head of Tremont.
 Broadway, corner Winsor.
 Cambridge Street, cor. Webster Avenue.
 Clark Street, corner Hampshire.
 Essex Street, corner Austin.
 Harvard Street, opp. Burial-ground.
 Harvard Street, head of Cherry.

Harvard Street, corner Davis.
 Harvard Street, corner Prospect.
 Main Street, junction Broadway.
 Norfolk Street, midway between Broadway and Hampshire.
 Prospect Street, 175 feet north of Broadway.
 Washington Street, corner Cherry.

LOCATED IN WARD THREE.

Cambridge Street, 70 feet east of Third.
 Gore Street, corner Third.
 Junction Bridge and Gore Streets.
 New England Glass Co.'s Yard.
 Otis Street, corner Fourth.

Revere Sugar Refinery Yard.
 South Sixth Street, corner Spring.
 Thorndike Street, corner Third.
 Under N. England Glass Co.'s Building.
 Under Lowell R. R. Machine Shop.

LOCATED IN WARD FOUR.

Austin Street, corner Douglass.
 Brookline Street, corner Auburn.
 Junction Western Ave. and Pleasant St.
 Magazine Street, corner William.
 Main Street, corner Austin.
 Main Street, corner Brookline.
 Main Street, 50 feet west of Osborn St.

Main Street, Junction of Western Avenue and River Street.
 Main Street, front of Univer. Church.
 Pearl Street, corner Franklin.
 Pearl Street, near Jones & Co.'s Factory.
 School Street, corner Cherry.
 Washington Street, corner Pine.

LOCATED IN WARD FIVE.

In Square, opposite Porter's Hotel.

| North Avenue, corner Russell Street.

Street Telegraph Stations.

A list of Fire Alarm Signal Box Stations is herewith presented, with a table showing the number of each apparatus which responds thereto on the first, second, and third alarms.

THE THIRD ALARM is given by striking THREE STROKES on the GONGS and BELLS.

THE SECOND ALARM call for H. & L. Co. No. 1 is given by striking FOUR STROKES on the GONGS and BELLS.

THE SECOND ALARM call for H. & L. Co. No. 2 is given by striking FIVE STROKES on the GONGS and BELLS.

Boxes.	Location.	First Alarm.			Second Alarm.			Third Alarm.
		Engines.	H. & L.	Hose.	Engines.	H. & L.	Hose.	Engines.
2	Bridge, corner Prison Point Street.	2, 3, & 5	2	1	1	1	..	4
6	Third Street, corner Broadway.	2, 3, & 5	1 & 2	1	1	..	..	4
8	Thorndike, corner Third Street.	2, 3, & 5	2	1	1	1	..	4
9	Cambridge Street, Beal & Hooper's Building.	2, 3, & 5	2	1	1	1	..	4
12	Winter, corner Third Street.	2, 3, & 5	2	1	1	1	..	4
13	Fourth Street, No 3 Engine-house.	2, 3, & 5	2	1	1	1	..	4
14	Sixth, corner Cambridge Street.	2, 3, & 5	2	1	1	1	..	4
15	Vine, corner Fifth Street.	2, 3, & 5	2	1	1	1	..	4
16	Broadway, Hancock & Greeley's Building.	2, 3, & 5	1 & 2	1	1	..	..	4
17	Washington, corner Brewery Street.	2, 3, & 5	1 & 2	1	1	..	..	4
23	Sydney, corner Allston Street.	1, 2, & 5	1	1	..	2	..	3 & 4
24	Brookline, corner Valentine Street.	1, 2, & 5	1	1	..	2	..	3 & 4
25	Main and Front Streets (junction).	1, 2, & 5	1	1	3	2	..	4
26	Main, corner Osborn Street.	2, 3, & 5	1 & 2	1	1	..	..	4
27	Clark, corner Harvard Street.	2, 3, & 5	1 & 2	1	1	..	..	4
28	Broadway, near Last Factory.	2, 3, & 5	1 & 2	1	1	..	..	4
31	Cambridge, corner Harding Street.	2, 3, & 5	2	1	1	1	..	4
32	Cambridge, corner Columbia Street.	2, 3, & 5	2	1	1	1	..	4
34	Columbia, corner Hampshire Street.	2, 3, & 5	2	1	1	1	..	4
35	Harvard, corner Norfolk Street.	2, 3, & 5	1 & 2	1	1	..	..	4
36	Main, corner Western Avenue.	1, 2, & 5	1 & 2	1	3	..	..	4
37	Pleasant and River Streets (junction).	1, 2, & 5	1	1	3	2	..	4
38	Magazine, corner Lake Street.	1, 2, & 5	1	1	..	2	..	3 & 4
41	Pleasant, corner Fairmont Street.	1, 2, & 5	1	1	..	2	..	3 & 4
42	Blackstone Street, opposite Riverside Press.	1, 2, & 5	1	1	..	2	..	3 & 4
43	Banks, corner Flagg Street.	1, 2, & 5	1	1	4	2	..	3
45	Franklin, near Soden Street	1, 2, & 5	1	1	3	2	..	4
46	Main, corner Hancock Street.	1, 2, & 5	1	1	4	2	..	3
47	Broadway, corner Antrim Street.	1, 2, & 5	1 & 2	1	3 & 4	..	..	..
48	Cambridge, corner Hampshire Street (junc.).	1, 2, & 5	1 & 2	1	3 & 4	..	..	..
51	Broadway, corner Ellery Street.	1, 2, & 5	1	1	4	2	..	3
52	Mt. Auburn and Main Streets (junction).	1, 2, & 5	1	1	4	2	..	3
53	Mt. Auburn, corner Linden Street.	1, 2, & 5	1	1	4	2	..	3
54	Cambridge, corner Sumner Street.	1, 4, & 5	1	1	2	2	..	3
57	Oxford, corner Mellen Street.	1, 4, & 5	1	..	2	2	1	3
59	Harvard Square, Ramsay's Apothecary.	1, 2, 4, & 5	1	1	..	2	1	3
62	Mt. Auburn, corner Hilliard Street.	1, 4, & 5	1	1	2	2	1	3
63	Brattle and Mason Streets (junction).	1, 4, & 5	1	1	2	2	1	3
64	Garden, corner Chauncy Street.	1, 4, & 5	1	1	2	2	1	3
65	North Avenue, corner Shepard Street.	1, 4, & 5	1	..	2	2	1	3
68	North Avenue, near Railroad Bridge.	1, 4, & 5	1	..	2	2	1	3
69	North Avenue, No. 4 Engine-house.	1, 4, & 5	1	..	2	2	1	3
71	North Avenue, near Tannery Street.	1, 4, & 5	1	..	2	2	1	3
72	Cedar Street, Hotel Building.	1, 4, & 5	1	..	2	2	1	3
73	Spruce Street, near Bay State Brick Yard.	1, 4, & 5	1	..	2	2	1	3
78	Concord Avenue, corner Sparks Street.	1, 4, & 5	1	..	2	2	1	3
79	Brattle, corner Sparks Street.	1, 4, & 5	1	1	2	2	1	3
82	Brattle, corner Elmwood Avenue.	1, 4, & 5	1	1	2	2	1	3
91	North Avenue, Union Railway Car-house.	1, 4, & 5	1	..	2	2	1	3
92	Gore Street, J. P. Squire's Building.	2, 3, & 5	2	1	1	1	..	4

Fire Alarm Telegraph.

Battery Station: Church Street

Telegraph Operator

Assistant.

GEORGE J. BLAISDELL.

DAVID J. CAMPBELL.

Location of Bell Strikers.

Unitarian Church, Harvard Square	Ward One.
Methodist Church, Harvard Street	„ Two.
Unitarian Church, Third Street	„ Three.
Webster School-house, Upton Street	„ Four.
Baptist Church, North Avenue	„ Five.

REPORT
OF
GEORGE L. CADE.

[SUPERINTENDENT OF STREETS.

To the Honorable City Council:—

THE undersigned asks leave to submit for your consideration his
Eleventh Annual

REPORT.

The Appropriation for Streets and Paving for the financial year ending Nov. 30, 1874, was . . .	\$102,000.00
Additional Appropriation	\$80,000.00
„ „	1,480.84
	81,480.84
Total Appropriation	\$183,480.84
Amount expended	183,480.84

The Appropriation for this Department has been expended as
follows:—

Superintendent's salary, shovels, harnesses, horses, and incidentals	\$6,141.34
Gravel and stone	33,232.04
Labor with men and teams	53,467.62
Iron-work and repairs on carts, &c.	1,469.20
Hay and grain	5,221.74
Lumber	316.05
Edgestone, paving, brick, &c.	82,501.91
Horse-shoeing and repairs	758.49
Hardware, &c.	372.45
	\$183,480.84

Sixty orders have been passed during the present year for the laying of sidewalks and crossings, all of which have been completed, at a cost, including grading and damages paid for land taken, &c., as follows : —

Pleasant Street, from Main to Florence Street . .	\$9,160.00
Third ,, ,, Broadway to Spring Street .	6,271.00
Harvard ,, ,, junction with Main to Linden Street	672.00
Dana Street, from Main to Harvard Street . .	600.00
Inman ,, ,, Broadway to Hampshire Street	4,800.00
Upton ,, ,, Magazine ,, Pleasant ,,	3,440.00
Pearl ,, ,, Main ,, Chestnut ,,	9,714.00
Magazine ,, ,, Central Square to Tufts ,,	12,400.00
Oxford ,, ,, Kirkland Street to Somerville line	13,225.00
Wendell Street, from North Avenue to Oxford Street	4,210.00
Mellen ,, ,, ,, ,, ,, ,, ,,	4,210.00
Milk ,, near the Somerville line	3,000.00
Main ,, from Central Square easterly . . .	1,000.00
Orchard ,, ,, Davenport Street to Somerville line	13,225.00
Charles Street, from Third to Fifth Street . . .	3,932.00
South, Dunster, and Holyoke Streets	375.00
Trowbridge Street, from Harvard Street to Broad- way	3,061.00
Forest Street, from Oxford Street to Somerville line	550.00
River ,, ,, Central Square to Blackstone Street	17,060.00
Green Street, from Magazine to Pearl Street . .	2,054.00
Elm ,, corner of Cambridge ,, . .	140.00
Sundry crossings	4,840.00
	\$118,431.00

The streets of Cambridge are in a very fair condition, considering the digging up of so many of them, for the purpose of laying sewers, water and gas pipes. North Avenue, from Garden Street to the Fitchburg Railroad Bridge, will require extensive repairs

during the coming spring, by picking up and macadamizing, and also raising a portion of the railroad tracks. In my opinion, a division should be made of the appropriation for streets and paving, by charging all expenses for paving and sidewalks to a separate appropriation; by doing this a larger proportion of money can be expended on the care and repairs of streets. Under the present form of appropriation we do not have a fair statement of what is actually used for the Street Department, as many thousands of dollars represented to have been so spent are actually returned to the City Treasury again for brick and edgestone furnished as per assessment. There are now, in the hands of the Committee on Roads and Bridges, forty-eight petitions for sidewalks and crossings, on which said Committee have not been able to act, for the want of money so to do. I have made a careful estimate of what it will cost to grant the prayer of these petitioners, and find it will be not less than forty-eight thousand six hundred and ninety-seven dollars. In addition to this, an appropriation of not less than ninety thousand dollars will be required for the care and repair of streets for the coming year.

During the past year upwards of fifty-two thousand feet of edgestone have been set, and fifty-five thousand yards of stone and brick paving laid, at a cost, including stock used, &c., of over one hundred thousand dollars. The following streets have been graded during the past year: —

Allston Street,	partially.
Antrim	,, its whole length.
Appleton	,, partially.
Ash	,, ,,
Athens	,, its whole length.
Auburn	,, partially.
Austin	,, ,,
Banks	,, its whole length.
Bay	,, partially.
Beaver	,, its whole length.
Beech	,, partially.
Bigelow	,, ,,
Blackstone Street,	partially.

Brattle Street, its whole length.
 Brighton ,, ,, ,,
 Bristol ,, partially.
 Broadway ,, ,,
 Brookline ,, ,,
 Cambridge ,, ,,
 Carson ,, its whole length.
 Charles ,, partially.
 Charles River Street, its whole length.
 Chester Street, partially.
 Church ,, ,,
 Cogswell Avenue, its whole length.
 Columbia Street, partially.
 Concord Avenue, ,,
 Cottage Street, ,,
 Cowperthwaite Street, its whole length.
 Craigie Street, partially.
 Crane ,, its whole length.
 Dana ,, partially.
 Davis ,, ,,
 Decatur ,, ,,
 De Wolf ,, its whole length.
 Dover ,, ,, ,, ,,
 Dublin ,, partially.
 Dunster ,, ,,
 Dyke ,, ,,
 Eliot ,, its whole length.
 Elm ,, partially.
 Fairmont Street, ,,
 Fayerweather Street, its whole length.
 Fifth Street, partially.
 First ,, ,,
 Flagg ,, ,,
 Florence Street, ,,
 Forest ,, ,,
 Foster ,, its whole length.
 Fourth ,, partially.

Franklin Street, partially.
 Front ,, ,,
 Garden ,, ,,
 Gore ,, its whole length.
 Green ,, partially.
 Hampshire Street, partially.
 Hancock ,, ,,
 Harding ,, its whole length.
 Harvard ,, partially.
 High ,, ,,
 Hilliard ,, ,,
 Holyoke ,, ,,
 Howard ,, ,,
 Hunting ,, its whole length.
 Inman ,, partially.
 Jefferson ,, its whole length.
 Kinnaird ,, partially.
 Kirkland ,, its whole length.
 Lakeview Avenue, partially.
 Lawrence Street, ,,
 Lee Street, partially.
 Lexington Avenue, partially.
 Lincoln Street, its whole length.
 Linden ,, partially.
 Linnæan ,, ,,
 Lopez ,, its whole length.
 Magazine ,, ,, ,,
 Main ,, partially.
 McCabe ,, its whole length.
 Mead ,, ,, ,,
 Mellen ,, ,, ,,
 Milk ,, ,, ,,
 Mill ,, ,, ,,
 Moore ,, ,, ,,
 Mount Auburn Street, partially.
 Norfolk Street, partially.
 North ,, ,,

North Avenue, partially.
 Orchard Street, its whole length.
 Otter ,, ,, ,,
 Oxford ,, ,, ,,
 Pacific ,, ,, ,,
 Pearl ,, ,, ,,
 Perry ,, partially.
 Pioneer ,, ,,
 Pleasant ,, its whole length.
 Plympton ,, partially.
 Porter ,, its whole length.
 Portland ,, ,, ,,
 Prison Point Street, its whole length.
 Prospect Street, partially.
 Putnam Avenue, ,,
 Quincy Street, ,,
 Raymond ,, ,,
 Reservoir ,, ,,
 River ,, its whole length.
 Russell ,, ,, ,,
 Sacramento Street, partially.
 School Street, partially.
 Second ,, ,,
 Short ,, ,,
 Sixth ,, ,,
 Soden ,, ,,
 South ,, ,,
 Sparks ,, ,,
 Spruce ,, ,,
 State ,, ,,
 Sydney ,, ,,
 Third ,, ,,
 Thorndike Street, partially.
 Tremont ,, ,,
 Trowbridge ,, ,,
 Upton ,, its whole length.
 Vernon ,, partially.

Vine Street, partially.
 Walden „ „
 Warren „, its whole length.
 Washington Street, partially.
 Watson Street, its whole length.
 Webster Avenue, partially.
 Wendell Street, „
 Western Avenue, „
 Willard Street, „
 William „ „
 Willow „, its whole length.
 Winsor „, partially.
 Winter „ „
 Wyeth „ „

The following streets have been widened and laid out during the year : —

Name.	Date.	Width.	At what Part.	Cost, including Grading.
	1874.	Feet.		
Brighton	Oct. 22	50	From Mt. Auburn St. to the River.	\$16,047.07
Eliot . .	March 9		Corner of Mt. Auburn Street.	500.00
Front . .	May 1		At its junction with Main Street.	836.00
Garden .	Nov. 12	40	From Wyeth to Walden Street.	2,313.98
Hunting .	Feb. 13	40	„ Cambridge St. to Somerville line.	7,930.91
Harding .	„ „	40	„ Cambridge St. to Somerville line.	11,544.72
Jefferson .	„ „	34	„ Warren to Harding Street.	6,557.28
Linnæan .	April 10	50	„ North Avenue to Garden St.	2,079.31
Lopez . .	May 16	40	„ Pearl to Brookline Street.	918.75
Main . .	April 16		„ its junction with Front St. westerly.	2,545.00
Milk . .	Sept. 10		Near the Somerville line.	3,000.00
Magazine	Nov. 12	50	To remove encroachments only.	925.00
New . .	June 3	40	From Concord Ave. north-easterly.	4,311.35
Porter .	Feb. 13	40	„ Warren to Harding Street.	5,746.91
Pearl . .	Dec. 22	40	To remove encroachments only.	340.38
River . .	„ „	50	„ „ Cambridge „ St. to „	3,794.02
Warren .	Feb. 13	40	From Cambridge St. to Somerville line.	8,223.07
Willow .	May 7	40	„ Cambridge St. to Somerville line.	3,282.57
				\$80,996.32

The following streets have been accepted during the year : —

Name.	Date.	Width.	For what Distance.
	1874.	Feet.	
Auburn	May 1	40	Brookline to Sydney Street.
Albany	Dec. 19	50	Main Street to Fort Washington.
Bristol	June 11	30	Hampshire Street to Webster Avenue.
Carson	May 1	30	Cambridge to Gore Street.
Chestnut	May 1	40	Magazine to Pearl Street.
Decatur	June 19	40	Pearl to Brookline Street.
	1873.		
Elm	Dec. 30	40	Cambridge Street to Somerville line.!
	1874.		
Fourth	May 1	50	Vine to Charles Street.
First	Sept. 19	50	Thorndike to Otis Street.
Garden	Nov. 12	40	Wyeth to Walden Street.
Hunting	Feb. 13	40	Cambridge Street to Somerville line.
Harding	Feb. 13	40	" " " " "
Jefferson	Feb. 13	34	Warren to Harding Street.
Linnæan	April 10	50	North Avenue to Garden Street.
Lopez	May 16	40	Brookline to Pearl Street.
Lakeview Avenue	Nov. 12	50	Brattle Street to Vassal Lane.
Lexington "	Nov. 12	45	" " " Watert'n Branch R.R.
Norfolk	April 25	40	Cambridge Street to Somerville line.
New	June 3	40	Concord Avenue, north-easterly.
Porter	Feb. 13	34	Warren to Harding Street.
Sixth	April 25	50	Spring to Charles Street.
Tufts	May 1	40	Magazine to Pearl Street.
Tremont	June 19	40	Hampshire Street to Somerville line.
Thorndike	Sept. 17	50	First to Second Street.
Warren	Feb. 13	40	Cambridge Street to Somerville line.
Willow	May 7	30	" " " " "
Willard	June 19	40	Mt. Auburn to " Brattle Street.

Schedule of Property.

Twenty-two horses	\$7,800.00
Twenty-five cart and chain harnesses	1,200.00
Sixteen carts	2,000.00
Two express wagons and harnesses	250.00
One set of runners	75.00
One plough	5.00
Utensils for work on streets, &c.	350.00
Stable furniture	50.00
Stone-crusher and steam-engine, &c.	4,000.00
Ten snow-ploughs	250.00
Three street-rollers	950.00
Five sleds	450.00
	<u>\$17,380.00</u>

Bridges.

The appropriation for bridges for the financial year									
ending Nov. 30, 1874, was	.	.	.	.	.	.	.	.	\$12,000.00
Amount expended	.	.	.	.	.	.	.	.	6,851.19
Balance unexpended									\$5,148.81

Bills to the amount of thirteen hundred and seventeen dollars and seventy-seven cents were carried over on account of their not having been rendered in season for payment.

The balance of this appropriation would have been used, had the City taken any action on rebuilding Prison Point Bridge draw, as per Act of the Legislature.

The following is a list of the several bridges on which repairs have been made during the year : —

Prison Point Bridge, on planking and railing.

Third Street ,, ,, ,,

Sixth ,, ,, ,, railing.

Brookline ,, ,, planking and railing.

River Street ,, ,, ,, ,, ,,

Western Avenue,, ,, ,, ,, ,,

Cambridge Great Bridge, new draw, planking, and railing.

Fitchburg Railroad Bridge, North Avenue, planking and abutments.

I consider the bridges all in good repair, with the exception of Prison Point and Brookline Bridges, the latter of which will have to be mostly replanked the coming season.

In my opinion, an appropriation of not less than five thousand dollars will be required for repairs in 1875.

Respectfully submitted.

GEORGE L. CADE,

Superintendent of Streets.

REPORT

OF

THE CHIEF OF POLICE.

OFFICE OF THE CHIEF OF POLICE, }
CAMBRIDGE, Dec., 1874. }

To the Honorable City Council of Cambridge:—

GENTLEMEN, — I have the honor to submit the Annual Report of the doings of the Police Department for the year ending Nov. 30, 1874:—

Whole number of arrests	1,924
Males	1,740
Females	184
Residents	1,519
Non-residents	405
Adults	1,678
Juvenile Offenders	246

Food and lodging have been furnished at the several station-houses to 3,062 persons, of whom 2,868 were males, and 194 were females.

The following table will show the offences for which arrests have been made:—

Assault and battery	275	Drunkenness	834
Assault on officers	27	Disturbance of the peace	76
Attempt to procure abortion	2	Disturbing public meeting	8
Bastardy	11	Deserters from military service	2
Breaking and entering	35	Escaped prisoners	7
Cruelty to animals	10	Embezzlement	1
Common drunkards	15	Evading car fare	5
Common railer and brawler	1	Felonious assault	20

Forgery	1	Obtaining goods by false pretences	6
For fighting dogs	2	Obstructing police officer in dis-	
Hotel swindler	1	charge of his duty	1
Having counterfeit money in pos-		Polygamy	1
session	1	Publishing obscene literature . .	1
Insanity	25	Passing counterfeit money . . .	1
Illegal sale intoxicating liquor . .	3	Receiving stolen property . . .	1
Incendiaries	5	Refusing to assist an officer . .	1
Kidnapping	1	Selling mortgaged property . . .	1
Keeping intoxicating liquor with		Selling adulterated milk	4
intent to sell	2	Suspicious persons	15
Keeping unlicensed dogs	11	Stubborn children	6
Lewd and lascivious persons . . .	9	Surrendered by bail	8
Larceny	187	Stealing a ride	4
Larceny from the person	3	Selling fireworks without license .	1
Larceny at fire	1	Vagrancy	38
Larceny from building	8	Violation of City Ordinances . .	167
Malicious mischief	35	Violation of Sunday law	39
Not advertising property found . .	2	Violation of fish law	1
Obstructing street car	1	Walking on railroad track . . .	1

A portion of the miscellaneous work of the Department may be classified as follows : —

Amount of property reported stolen	\$6,246.00
Amount recovered by this Department	\$3,185.00
Accidents reported where the injured parties were	
assisted	66
Alarms of fire given by officers	14
Buildings found open in the night and secured	143
Dead bodies found and taken care of	8
Dangerous places in streets and sidewalks reported	182
Defects in gas and water pipes reported	116
Defects in drains and cesspools reported	62
Dogs killed	42
Disturbances suppressed	113
Fires extinguished without alarm	5
Intoxicated persons assisted home	217
Lost children restored to friends	105
Infants found and cared for	7
Rescued from drowning	5
Small-pox cases cared for	3
Stray teams put up	27

Total cost of the Department for the year : —

Appropriation	\$75,000.00
Transferred	3,000.00
Balance	<u>\$72,000.00</u>

Expenditures : —

Pay of Chief	\$2,000.00
Sundry officers' services	61,446.00
Printing Telegraph	1,990.35
Horses	475.00
Furniture at new station	1,612.05
Ventilating Third Station	902.56
Incidental expenses, including care and repair of station-houses and police-court room, supplies, coal, gas, horse-keeping, horse-shoeing, medical attendance, &c.	<u>3,284.88</u>
Total	\$71,710.84
Amount paid into the treasury on account of ser- vices on warrants, witness-fees, &c.	<u>4,853.00</u>
Balance, showing actual cost	\$66,857.84

During the year wires have been run connecting Stations One, Three, Five, and the City Hall, with Station Two ; and five of Welch and Anders' Electro-magnetic Printing Telegraph Machines have been introduced ; these have been found of great assistance in the business of the Department, and, as we have sufficient wire on hand to extend a line to the Lower Port, I would suggest the expediency of the purchase of another of these machines to be put in the lock-up there.

A pair of horses have also been purchased for the use of the Department ; the cost of these two items, together with that of furnishing the new station, No. Two, and that of ventilating Station No. Three, amounting in the aggregate to about five thousand dollars, have all been charged to the appropriation for police, thereby making the running expenses appear greater by that amount than they really were.

During the last year the force has been increased by the addition of ten men, and the hours of duty have been changed, so that they now conform to what is called the Boston system; and, as at present organized, the force consists of a chief, three captains of districts, one captain of night police, two officers detailed for special duty, seven day patrolmen, three night station officers, forty-three night patrolmen, divided into two reliefs, covering the hours from 6 P.M. to 8 A.M. During these fourteen hours Captain Hagar is the only officer of rank on duty throughout the City; and, as he cannot be omnipresent, it follows, as a matter of course, that the night officers are for a portion of the time left to themselves, and the only security which the City has that the duty will be well done is the sense of honor which an officer has in regard to doing it. As police officers are but human, it is perhaps fair to suppose that the security is not sufficient, and that in some cases there may be negligence. To remedy this evil, I would recommend the appointment of a sergeant in both the first and third districts, to act as assistants to Captain Hagar.

The average age of the officers of the force is forty years, and the average length of their terms of service (which vary from one to twenty-one years) is five years and a fraction over. Of the sixty men composing the force, fifty-one were born in the New England States and New York, five in Ireland, three in the British Provinces, and one in England; but all are alike citizens of this Commonwealth, and many of them showed their devotion to her on the battle-fields of the late war. I take the liberty of suggesting here that in my judgment it would be for the interests of the force if some qualifications in regard to age, &c., were established by ordinance for persons applying for positions on this force.

The station-houses of the City are situated as follows: No. One in Church Street, Old Cambridge; this building is in very fair condition, but the quarters of both officers and prisoners are somewhat limited in their accommodations. A new building is in process of erection at junction of Brattle and Eliot Streets, which will furnish all needed accommodations, and be an ornament to the City. No. Two is in the new City building at junction of Western

Avenue and Green Street, in the fourth ward, and has been occupied since the seventeenth day of August last. It is in all respects a first-class station-house, and a credit to the City. No. Three is on Fourth Street, in the third ward, and is in good condition. Nearly one thousand dollars have been expended during the last year in ventilating the building, it having been built originally without any regard to this important matter. No. Four is a wooden building on Norfolk Street, used as a temporary lock-up, and is in very good condition. No. Five is in the engine-house building on North Avenue, at North Cambridge, and, like No. Three, was built without any regard to the principles of ventilation. The necessity of a free circulation of air is recognized now by all boards of health and sanitary commissioners, and in this case the remedy should be applied at once. No. Six is situated on Main Street, at the Lower Port, and is used only as a temporary lock-up: it is in good condition.

The number of arrests during the last year exceeds that of the year preceding by three hundred and eighty-six, and may properly be ascribed to the increase of the force, and the more extended protection which we have been able to give to the citizens.

Our City has during the last year enjoyed its usual immunity from crimes of magnitude. In December, 1873, one man met his death in a drunken brawl on Craigie's Bridge, and, though all the parties were arrested, it was impossible to fix the guilt upon any one; and on the twenty-ninth of August last a murderous assault was made on a quiet citizen of East Cambridge by a party of six roughs, three of whom belonged in Cambridge and three in Boston. These parties were all arrested, but, by the delays of the law and lawyers, have thus far escaped trial. Numerous cases of breaking and entering have been reported, but the booty secured has in all cases been small; and the arrest by the police of thirty-five persons charged with this offence (and conviction has followed arrest in most of these cases) shows that crime has not gone unpunished.

I am satisfied from my own personal observation, and the reports of other officers to me, that the general condition of the force is

superior to what it has been at any previous time ; but there are still defects in its organization.

In conclusion, I wish to return my thanks to each and every officer under my command for their promptness at any call for duty, and to the State officers stationed in this City, and the police departments of neighboring cities, for assistance cheerfully given whenever opportunity offered.

Respectfully submitted.

GEORGE H. COPELAND,

Chief of Police.

REPORT

OF

JOHN CAHILL,

SUPERINTENDENT OF LAMPS.

To his Honor the Mayor and City Council of the City of Cambridge:—

GENTLEMEN, — I herewith submit my Report in relation to the Department of Lamps from the date of my appointment, Feb. 3, 1874, for the year ending Nov. 30, 1874.

The whole number of Street Lamps is as follows:—

District One,	271 gas, 13 fluid.	
District Two,	280 gas, 27 fluid.	
District Three,	103 gas, 15 fluid.	
	— —	
	654 gas, 55 fluid.	Total . . . 709

Fifty-six of the above lamps were added during the year; forty-two of these were paid for by the City, fourteen by the abutters.

The following is an exhibit of the expenses of the Department from Feb. 1, 1874, to Nov. 30, 1874, inclusive:—

For gas	\$8,309.44
Care of lamps and lighting	4,366.54
Posts, lanterns, and repairs	1,974.11
Fluid, matches, &c.	202.00
Superintendent's salary, Feb. 1 to Dec. 1	333.34
	—
Total	\$15,185.43

The average cost of each lamp burning gas through the year was about seven cents per night ; and the cost of each lamp burning fluid for the same time was one cent per night. Six men are employed to light the lamps and keep the lanterns clean ; and they are paid fifty cents per month for each lamp, and two shillings extra for each lamp that is left burning all night.

When I took charge of the Department, I received from my predecessor two ladders, one wrench, some old street signs, some glass for street signs, and two old condemned lanterns, with some old books of account, not of a very recent date. On making inquiries, I was led to believe that a regular set of books had been kept, from which I might learn all matters relating to the Department, such as the price paid for materials, the number of men employed, the hours of lighting, amount of appropriations, expenditures, &c. ; but, upon calling on the ex-Superintendent, I was politely informed that all the property he held belonging to the City had been turned over to the City Clerk, and I was forced to take charge of the Department without any knowledge of its several details. However, in less than a week I felt that I was master of the situation, and will refer to the Chairman of the Committee on Lamps, or either of the gentlemen of that Committee, to bear me out in stating that the business of the Department is conducted for the best interests of the City.

The materials used are of the best quality ; the posts are heavy and of the same pattern as those now in use in the City of Boston ; the lanterns are manufactured from fourteen-ounce copper.

The cost of post and lantern when I took charge of the Department was thirty dollars ; but, owing to a healthy competition, the price is now reduced to twenty-five dollars, including setting.

During the year twelve lamp-posts have been removed from their original position and relocated.

I have received, for a lamp broken by a runaway horse at the corner of School and Winsor Streets, twenty-five dollars. Three others have not as yet been paid for.

The office of the Superintendent of Lamps is now located in the new City Building in Ward Four, and is open every day for business.

In conclusion, I return my thanks to his Honor the Mayor, the Committee on Lamps and Public Property, and the members of the City Council generally, for their aid and assistance to me during the year. Believe me, gentlemen, that those acts of kindness and good-will cannot be forgotten.

Respectfully submitted.

JOHN CAHILL,

Superintendent of Lamps.

REPORT
OF
JOSIAH G. CHASE,
CITY ENGINEER.

CITY OF CAMBRIDGE, OFFICE OF CITY ENGINEER, }
December 21, 1874. }

To the Honorable the City Council:—

GENTLEMEN, — As required by ordinance relating to the Department of City Engineering, I present herewith my Report for the year ending Nov. 30, 1874.

SEWERS.

The following sewers, as exhibited in the annexed table, have been constructed the past year:—

DETAILED STATEMENT OF SEWERS BUILT FROM NOV. 30, 1873, TO DEC. 1, 1874.

LOCATION.			CONSTRUCTION.							Total cost.
In what Street.	From	To	Contractor.	Material.	Size in inches.	Catch Basins.	Man Holes.	Inlets.	Length in feet.	
Appleton.	Extension.	High.	J. Horigan, Foreman.	Cement pipe.	12	2		6	152	\$360.11
Ash Court.	Ash St.	easterly.	Samuel Palmer.	Cement pipe.	12			10	245.9	305 08
Athens.	Mt. Auburn St.	southerly.	J. Horigan, Foreman.	Cement pipe.	12	2			22	190.95
Avon Hill.	Linnean St.	Foxcroft.	J. Horigan, Foreman.	Cement pipe.	15	2	2	54	628.9	1,695.78
Bennett.	Murray St.	westerly.	J. Horigan, Foreman.	Cement pipe.	12			22	374.4	360 70
Brattle.	Extension.	Fayerweather.	Samuel Palmer.	Cement pipe.	15	2	1	22	574.5	1,526.00
Brewery.	Harvard St.	near Broadway.	J. Horigan, Foreman	Cement pipe.	10			7	224	285.45
*Bridge.	Craigie's Bridge.	Somerville line.	O. P. Roberts.	Brick.	8 ft. 4 in.	4	5	165	3,137.24	154,932.38
Brown.	Foster St.	Brattle.	Day & Collins.	Cement pipe.	10			16	429	338.91
Cambridge.	Third St.	westerly.	J. Horigan, Foreman.	Cement pipe.	12			6	152	333.36
+Charles.	B. & A. R.R.	Dist-house.	Isaac C. Cushing.	Brick & invert.	42 x 36	8	4	97	1,328.5	8,218 50
Chestnut.	Second St.	Charles River St.	H. H. Pike.	Wood.	30 x 30				259.75	909.12
Columbia.	Pearl St.	near Brookline.	J. Horigan, Foreman.	Cement pipe.	12			31	658.80	848.75
**Crane.	Market St.	near Broadway.	J. Horigan, Foreman.	Cement pipe.	12			11	189.75	219.85
Deatur.	De Wolf St.	easterly.	J. Horigan, Foreman.	Cement pipe.	12	2			26	190.95
Donnell.	Brookline St.	Pearl.	Day & Collins.	Cement pipe.	12			34	446.2	416.59
#Dublin.	Garden St.	south of Tuttle.	Day & Collins.	Cement pipe.	15 & 12	2	1		560.6	See Walden.
Everett.	Spruce St.	Wyeth.	J. Horigan, Foreman	Brick.	48 to 24	19	5	127	2,497.65	29,708.95
Fayerweather	Oxford St.	North Avenue.	Samuel Palmer.	Cement pipe.	12	2		31	756	965.33
Fifth.	Brattle St.	summit of hill.	J. Horigan, Foreman.	Cement pipe.	12	1	1	41	1,019.5	1,579.88
Flagg.	Winter St.	near Milk.	J. Horigan, Foreman.	Wood.	18 x 22				231	336.22
Foster.	Extension.	Beaver.	J. Horigan, Foreman.	Cement pipe.	12	1		5	76.5	145 65
Foster.	Oxford St.	easterly.	J. Horigan, Foreman.	Cement pipe.	12	2		4	137.5	345.55
Fourth.	Willard St.	Brown.	J. Horigan, Foreman.	Cement pipe.	12	2		26	377.7	627 40
Foxcroft.	Bridge St.	Winter.	H. H. Pike.	Cement pipe.	12			9	168	255.55
Franklin.	Avon Hill.	Washington Ave.	J. Horigan, Foreman.	Cement pipe.	12	See	Avon	Hill.	299.8	See
Front.	Soden St.	near Pleasant.	J. Horigan, Foreman.	Cement pipe.	12			23	461.5	Avon Hill.
Green.	Extension.	Marsh.	J. Horigan, Foreman.	Wood.	18 x 12				150	586.43
Green.	Walden St.	Donnell.	Day & Collins.	Cement pipe.	15		1		112 29	112 29
Harding.	Hancock St.	Bay.	J. Horigan, Foreman.	Cement pipe.	12	2		16	281.8	See Walden.
\$Harvard.	Cambridge St.	Somerville line.	Charles Linehan.	Cement pipe.	12	2			318.7	429.10
Hastings.	Plympton St.	Holyoke.	J. Horigan, Foreman	Cement pipe.	12			16	560.25	See Warren.
Hayes.	Extension.	near B. & A. R.R.	J. Horigan, Foreman.	Cement pipe.	10			7	410	580.60
Holly.	Howard St.	Putnam.	J. Horigan, Foreman.	Cement pipe.	12			45	115.5	129 95
Hunting.	Wyeth St.	Madison.	Samuel Palmer.	Cement pipe.	12	See	Wyeth	Street.	597.3	691.00
Jay.	Cambridge St.	Somerville line.	Charles Linehan.	Cement pipe.	12	2			395.3	See Wyeth.
Jefferson.	Western Ave.	River St.	J. Horigan, Foreman.	Cement pipe.	12			20	540.7	See Warren.
Kinnaird.	Warren St.	Harding.	Charles Linehan.	Cement pipe.	12	5			373.7	427.22
McCabe.	Western Ave.	northerly.	J. Horigan, Foreman.	Cement pipe.	12			19	576.2	See Warren.
	Cambridge St.	Jefferson.	Charles Linehan.	Cement pipe.	12				300.8	337.48
					12				222.5	See Warren.

Mill.	Charles River St.	easterly.	J. Horigan, Foreman.	Cement pipe.	12	1	5	109	165.15
Mt. Auburn.	Sparks St.	easterly.	J. Horigan, Foreman.	Cement pipe.	12	2	1	72	75.95
Mt. Pleasant.	Walden St.	easterly.	Day & Collins.	Cement pipe.	12			509.6	See Walden.
Orchard.	Davenport St.	Beech.	J. Horigan, Foreman.	Cement pipe.	12		16	397.7	
Orchard.	Russell St.	Beech.	J. Horigan, Foreman.	Cement pipe.	12	4	47	826.2	1,997.82
Osborn.	Main St.	State	J. Horigan, Foreman.	Cement pipe.	12	1	10	246.5	See State.
Park.	Magazine St.	Pleasant.	J. Horigan, Foreman.	Cement pipe.	12		25	465	502.00
Perry.	Pearl St.	Magazine.	J. Horigan, Foreman.	Cement pipe.	12		20	370.5	445.80
Pilgrim.	Sidney St.	near Brookline.	J. Horigan, Foreman.	Wood, brick, stone.	20 x 24			267.25	See Sidney.
Plymouth.	Webster Ave.	Winsor.	J. Horigan, Foreman.	Cement pipe.	12		17	342.8	382.15
Porter.	Warren St.	Harding.	J. Horigan, Foreman.	Cement pipe.	12	5		585	See Warren.
Reservoir.	Fayerweather St.	easterly.	Samuel Palmer.	Cement pipe.	12	2	12	228.3	574.00
River.	Fairmont St.	Kinnaird.	Day & Collins.	Cement pipe.	{ 15 } 12	6	62	{ 510.65 } 480.60	5,943.07
Rockwell.	River St.	Pleasant.	J. Horigan, Foreman.	Cement pipe.	12		20	345.5	405.80
Sands.	Charles River St.	Putnam.	J. Horigan, Foreman.	Cement pipe.	12		20	420.6	435.35
Second.	Spring St.	Charles	J. Horigan, Foreman.	Wood.	20 x 22			501.8	909.12
Seventh.	Otis St.	Thorndike.	J. Horigan, Foreman.	Cement pipe.	12		7	145.8	154.60
Sidney.	Pilgrim St.	near Franklin.	J. Horigan, Foreman.	Wood, brick, stone.	24 x 29			128	834.90
Sidney.	Extending east.	in Creek.	J. Horigan, Foreman.	Wood.	24 x 24			260	427.65
Spruce.	Cedar St.	Hollis.	Day & Collins.	Cement pipe.	15	5	32	599	2,575.25
State.	Osborn St.	Village.	J. Horigan, Foreman.	Cement pipe.	12	2	30	702.3	1,148.73
Tuttle.	Donnell St.	Wyeth.	Day & Collins.	Cement pipe.	12			567	See Walden.
Valentine.	Brookline St.	Pearl.	J. Horigan, Foreman.	Cement pipe.	12		27	396.5	378.77
Walden.	Dublin St.	Garden.	Day & Collins.	Cement pipe.	20	4	121	440	4,673.00
Walden.	Dublin St.	Raymond.	Day & Collins.	Cement pipe.	20	3	153	1,014.6	6,116.45
Walden.	Raymond St.	Mt Pleasant St.	Day & Collins.	Cement pipe.	18	2		683	Included above.
Walden.	Mt. Pleasant St.	Richdale Ave.	Day & Collins.	Cement pipe.	12	1		263.7	
Warren.	Cambridge St.	Porter.	Charles Linehan.	Cement pipe.	15	4	198	493.25	6,778.12
Webster Ave.	Plymouth St.	near Winsor.	J. Horigan, Foreman.	Cement pipe.	15		27	569.9	981.75
Willard.	Charles River St.	Foster	Samuel Palmer.	Wood, brick, stone.	24 x 24		20	543.7	1,772.00
William.	River St.	easterly.	J. Horigan, Foreman.	Cement pipe.	12	2	5	103	288.45
Willow.	Cambridge St.	{ northerly and } extension.	Charles Linehan.	Cement pipe.	12			100.2	See Warren.
Wyeth.	Garden St.	Concord Ave.	Samuel Palmer.	Cement pipe.	15&12	2	56	627	1,997.12
Totals . . .									
SEWERS BUILT BY PRIVATE PARTIES UNDER SUPERVISION OF THE CITY ENGINEER.									
Charles.	Southerly.	northerly.	P. Conlan.	Wood.	12 x 12			369.25	†† 100.00
Distil-house.	Cambridge St.		D. R. Sortwell.	Clay pipe.	10			294	
Frisbie Place.	Kirkland St		Harvard College.	Cement pipe.	15&12		5	908	
Green.	Change in direction		Water Works.	Cement pipe.	12			64.5	
								26,229.14	\$248,454.08

* Tide-gates and Flushing gate.
† The following sizes, 48 x 48 in. — 48 x 44 in — 42 x 36 in. — 40 x 36 in. — 30 x 24 in. — 24 x 24 in. — cost, length, &c., cover portion constructed in 1874.
‡ Cost includes repaving and inlets, \$101.35.
†† Allowed by City.

Four hundred and thirty-six permits to enter private drains into common sewers have been granted during the year, as provided by ordinance relating thereto.

Eight hundred and forty-six catch-basins have been cleaned out, and their contents removed, during the year. Two thousand nine hundred and one loads have been taken from them at a cost of \$1,520.00 ; the average cost for cleaning catch-basins being $\$1.79\frac{7}{10}$ each, and $51\frac{7}{10}$ cents for each load of material taken out and carted away. Thirty-four man-holes and 153 catch-basins have been built in connection with the sewers above enumerated, and under orders for sundry localities and improvement of low land districts.

A recapitulation of the above shows that sewers have been built in 69 different streets, from Nov. 30, 1873, to Dec. 1, 1874, with a total length of 36,229.14 feet, equal to six miles $4,549\frac{1}{10}$ feet, or $6\frac{861}{1000}$ miles.

The appropriation for sewers and drains made in February last was \$126,000.00 ; appropriation for Bridge Street sewer, \$175,000.00. And there have been expended for constructing sewers, for care and repairs, cleaning and constructing catch-basins, repairs and alterations, as follows : —

From the appropriation for sewers and drains	.	.	\$103,995.17
„ „ „ „ Bridge Street sewer	.	.	154,932.38
„ „ „ „ filling low lands	.	.	8,382.66
Total expenditure for the year ending Nov. 30	.	.	\$267,310.21

Bridges.

No critical examination of the several bridges has been made for the purpose of giving a detailed statement of their present condition in this Report.

The results to be obtained by such examination would form merely a repetition of facts mentioned in my last Annual Report, as the care and repairs bestowed upon the bridges by the Superintendent of Streets preserve their condition for safety and convenience for public travel. His Report thereupon will convey, without repetition, all necessary information.

Craigie's Bridge has been rebuilt during the past season, so far at least as relates to its superstructure and a portion of its substructure. An account thereof will be obtained from the proper channel, the Report of the Commissioners on West Boston and Craigie's Bridges.

Streets.

Those laid out and accepted as public streets during the year are fully enumerated in the report of the Superintendent of Streets, and add to the list of public streets a length of 4.42 miles and an area of 1,021,629 square feet.

Stone bounds have been set and recorded during the year permanently to establish the lines of new streets; and applications for correct lines of streets for building purposes, more numerous than ever before, have, in all cases, been answered.

Plans for a large number of streets, principally in low land districts, have been prepared in this office for acceptance as public streets.

Low Lands.

Since my last Annual Report the work of filling and improving low land districts has been continued as follows:—

The Cowperthwaite Street District has been fully completed, and reported to the Honorable Board of Mayor and Aldermen, expenditures upon which for the financial year have been \$36,013.13.

The work upon the following districts has been fully completed, and the accounts finally closed the present month. The final computations for assessment are in preparation, and will be reported in detail to the Board of Mayor and Aldermen at an early day.

Expenditures the present year have been upon—

Miller's River District	\$93,754.13
Sparks Street District	18,403.76
Cambridge Street District	51,037.94

The Franklin Street District is now in progress, the work upon which was commenced in August, 1873. There have been paid

upon the estimates returned for the financial year 1874, and for improvements in surface drainage, \$60,578.52.

Other low land sections have been filled, and nuisances abated, under direction of sundry special orders; and the expense thereof has been paid from the appropriation for low lands as follows:—

For Lilac Court section	\$2,938.73
,, Putnam Avenue District	15,105.40
,, Binney Estate clay-pits	11,174.80
,, Sidney Street nuisance	1,049.72
,, Webster Avenue nuisance	1,888.21
,, Bent Estate	1,474.84
,, Sundry surveys	1,458.50
,, Pipe, cement, labor, &c.	886.80
	\$35,977.00

The total amount of expenditure on low land districts for the financial year has been \$295,764.48.

Cemetery.

The usual requirements for work at the Cambridge Cemetery have been met in all cases; and a plan for improving and rendering more available the low portion of ground immediately in front of the Lodge has been prepared and submitted to the Commissioners; but no request or instructions have been received based upon action relating thereto. For further suggestions, reference is made to past Annual Reports upon "Cemetery."

City Map and General Survey of the City.

Since my last Annual Report, the new City Map referred to therein has been received from the lithographers, and supplies a want long existing for a map which may be relied upon for general reference.

Under the order of June 29 last, construed to require a general and accurate survey of the City, work is progressing in such manner as to insure its value, when completed, as a durable and permanent record. Since the first of July a party of three persons has

been engaged almost exclusively in the performance of this work. All of the principal streets have been completed in outline, and much of the detail work has been done. No time has yet been devoted to working up the "field notes" of the past season; but the necessary office work is now to be performed at once. At such times as the season will permit, field work will be continued; and, when completed, the work is designed to form a complete and accurate survey of the City, in full outline and detail. Not only the lines of the streets, public and private, are to be fixed thereby, but every lot and building in the City is to be delineated upon plans. The importance of this accumulated information cannot pass unrecognized as invaluable to the assessors when plotted in sectional plans to a proper scale, as well as for other City purposes and the public generally.

Office.

An appropriation of ten thousand dollars was made early in the season to meet the expenses of City Engineering and Surveying. Three thousand dollars have been transferred to other appropriations, and the expenditures of the office have been \$7,658.68, including the salary of the City Engineer. Of this amount \$6,200.18 have been paid from the appropriation for City Engineering, and \$1,458.50 from the appropriation for low lands.

Permanently and transiently twelve persons have been employed during the past year.

Respectfully submitted.

J. G. CHASE,

City Engineer.

REPORT

OF THE

COMMISSIONER ON WEST BOSTON AND CANAL BRIDGES.

THE Commissioners on West Boston and Canal Bridges submit their Fourth Annual Report of matters relating to the care and management of said bridges.

West Boston Bridge.

The rebuilding of Canal Bridge, and consequent stoppage of travel over it for a period of rather more than five months, has subjected the West Boston Bridge to an unusual amount of heavy teaming, the effect of which has been very injurious to the wood pavement of the roadway. Although put in the best condition possible before the closing of Canal Bridge, it is now in such bad condition that the Commissioners think it will be better economy to replace it with granite blocks, rather than to attempt to keep it in repair for another season. The pavement has been laid but three years and may be said to be completely worn out, and has only been maintained the present year by a large outlay for repairs. The Commissioners would refer to their Second Annual Report for their reasons for using wood pavement on this bridge.

It will be necessary as early in the spring as practicable to replace the present draw by a new one. The old draw has been kept in use during the past year by constant repairs, but cannot be called safe for the loads it is liable to be subjected to. In September, an accident to the draw, occasioned by a vessel carelessly striking it, came very near causing a complete cessation of travel over the main avenues between the two cities, the Canal Bridge not being completed at the time. The gallows frame on one side of the draw was completely wrecked, and the rottenness of the

timber of which it was composed showed the necessity of strengthening the remainder of the frame as soon as possible. The broken portions were replaced by new timbers, and the other parts made secure for ordinary use.

The Act of the Legislature of 1870 required the draw-ways in all the Charles River bridges to be made 36 feet, instead of 30 feet, the present width; and, as soon as the new draw-way in the Lowell Freight Bridge is completed, a work which is now in progress, all the draw-ways on Charles River between the West Boston Bridge and the harbor will be of a uniform width of 36 feet. The Commissioners have heretofore delayed compliance with this Act, as the draw-ways below were not widened, and it was thought that the old draw would be safe till they were; but there is now no reason for any further delay.

The widening of the draw-ways will necessitate the building of a new draw twelve feet longer than the old one; and some changes will have to be made in the foundation, draw-pier, and bridge superstructure to accommodate it.

Plans for this work are now being made by our engineer; but they have not yet been sufficiently elaborated to enable an estimate of the expense of construction to be made.

Canal or Craigie's Bridge.

The reconstruction of this bridge, in accordance with the plans described in former reports, has been accomplished during the past year.

The work was advertised for proposals in February, and six were received, the highest being \$171,354.00, and the lowest \$131,975.00. The contract was awarded to the lowest bidders, Messrs. Ross & Lord, on the 2d of March.

The work was to be completed on the 1st of October, the bridge not to be closed to travel for more than five months, the contractors to forfeit fifty dollars per day for every day's delay beyond that time, and to be responsible for all damages to persons or property caused by any carelessness or negligence of theirs during the reconstruction.

Work was commenced in April; on the 1st of May the bridge

was closed to all travel by the contractors, although it had been closed to team travel for some time previous to this date by the building of the Bridge Street sewer. The contractors completed their work, with the exception of some minor details, within the time specified, and the bridge was in readiness for travel on the 1st of October, but was not opened until the 8th, as the paving of Bridge Street in Cambridge, and the portion of Leverett Street between the end of the bridge and North Charles Street, were unfinished.

As a matter of record, it may be well to state the work done, although it will not vary much from what has been proposed and partially described in former reports. About seven hundred feet in length of the old bridge, including the draw and draw-pier on the southerly side, has been removed; the section removed rebuilt, and the remainder widened to a uniform width of 64 feet, its former width having been 40 feet at the Boston end as far as the draw, and 50 feet from the draw to the Cambridge end. The old part has been repaired by renewing all decayed portions of the superstructure; and a new fender guard on the southerly side of the bridge, a new wooden centre-pivot, counterbalanced draw 50 feet in width and an average length of $129\frac{1}{2}$ feet, and a new draw-pier 435 feet long and 56 feet wide for a portion and 28 feet wide for the remainder of its length, have been built. The roadway, 48 feet in width, has been paved with small granite blocks, except in the horse-railway tracks, which were paved by the railroad company with cobble-stones. The sidewalks, each 8 feet in width, have been paved with bricks, each side of the bridge lighted by gas, and the draw furnished with steam machinery for opening and closing it similar in design to that on the West Boston Bridge. The average detention to travel by the passage of a vessel is from four to five minutes; and all vessels going through are required by the bridge superintendent to use the steam appliances furnished for aiding them.

The Street Commissioners of Boston have co-operated with us in this improvement by widening Leverett Street from the bridge to North Charles Street; but have reduced the width, as intimated in a former report, from 64 feet at the bridge to 60 feet at North

Charles Street, and are to continue the widening as far as Brighton Street.

A settlement has not yet been made with Mr. Clark B. Woods, at the Boston end of the bridge, for damage occasioned by taking a portion of his wharf and flats for the widening, he not being satisfied with our award.

The estimated expense of the entire reconstruction of the bridge was, as stated in the last Annual Report, \$187,000.00 ; the cost of the work has been \$146,598.32. We were fortunate in the selection of a favorable time for contracting for the work, as all the materials used were lower in price than they have been for many years. The thorough and workmanlike manner in which the whole work has been performed is creditable to the several contractors ; and the Commissioners believe that the bridge and its appurtenances are as well adapted for the exigencies of travel as any similar avenue leading from the City of Boston.

Appended to this Report is a statement of the payments made by the City of Cambridge on account of the bridges from Dec. 1, 1873, to Dec. 1, 1874, together with a statement from the drawtenders of the number of times the draws were opened during the same term.

Respectfully submitted.

EZRA PARMENTER,

Commissioner for Cambridge.

Number of times the draw on West Boston Bridge has been opened during the following months. Charles W. Blaney, Superintendent ; John McNulty, Engineer.

December, 1873	77
January, 1874	15
February	0
March	30
April	191
May	211
June	218
July	152
August	140
September	135
October	163
November	132
Total	1,464

Number of times the draw on Canal Bridge has been opened during the following months. Cyrus Bruce, Superintendent to Oct. 1; A. W. Smith, Superintendent from Oct. 1, 1874.

December, 1873	177
January, 1874	45
February	11
March	91
April	305
May	629
June	590
July	557
August	543
September	459
October	443
November	225
Total	4,075

The expenses of Cambridge for maintaining West Boston and Canal Bridges for the year 1874 were as follows : —

Commissioner's salary	\$500.00
Superintendents, assistants, and others	2,678.06
Repairs and materials	1,567.39
Gas-pipe, lamps, &c.	1,290.50
Paving and materials	751.92
Engine-house, engine, and machinery	1,305.63
Rebuilding Canal Bridge	68,630.08
Gas	581.44
Supplies and sundries	969.67
	\$78,274.69

ANNUAL REPORT

OF THE

TRUSTEES OF THE DANA LIBRARY.

THE Board of Trustees of the Dana Library herewith submit to the City Council their Seventeenth Annual Report.

The year just ended has been a notable one in the history of the Library. By the action of the Board in making it free to all residents of Cambridge above the age of fourteen years, its operations have been increased more than fourfold.

The Board of Trustees, in their Report for the year 1873, recommended that, as the institution was supported wholly by the City Treasury, and was, therefore, a tax upon the citizens, no valid reason existed why it should not be as free to the people of Cambridge as were its schools or any other part of the public administration. The present Board, acting upon this suggestion, voted in January last that the fee of one dollar a year, which had been required of subscribers since the foundation of the Library, be abolished; and that all be allowed the use of the books, under suitable regulations. It was also voted at the same time that, after the first of March following, the Library be opened daily, Sundays and holidays excepted. The effect of this action of the Trustees was at once apparent in the very large accession of new subscribers, and the greatly enhanced public interest manifested in the Library.

The whole number of subscribers for the year 1873 was 310. The number of new borrowers, as reported by the Librarian at the

termination of the first quarter under the new system, was 1,050 ; and at the end of the year — which includes the nine months since the fee was dispensed with — the number reported was 1871. No comment upon these facts is necessary, further than to say that, if the Library is to be of real value to the community, the use of it ought not to be hampered by a money restriction.

The following figures show clearly and concisely the difference in the call for books under the old and new systems : —

Number of books given out in 1873		12,566
„ „ „ 1874		47,327
Average per day in 1874		162
Largest issue in any one day		385

The year's work may be analyzed thus : —

Books given out the first quarter of 1874		4,339
„ „ second „ „		16,654
„ „ third „ „		15,140
„ „ fourth „ „		11,194
Average per week first quarter, 1874		333
„ „ second „ „		1,280
„ „ third „ „		1,165
„ „ fourth „ „		1,119

The issues for the year upon the average of the nine months' free use would have been 57,304, an increase of nearly fivefold. As has been the case in previous years, more books were taken out in March, April, and May than in other quarters of the year.

Experience has justified in a striking manner the action of the Board ; and the time is past for discussing and theorizing upon the advantages or otherwise of a free public Library in this community.

Received for subscriptions the first quarter of the year		\$87.00
„ fines for the year		74.34
„ from sale of catalogues		41.00

All of which has been paid into the City Treasury, and the vouchers placed on file.

Amount of the City's Appropriation \$5,129.54

Items of expenditure : —

Librarian, Assistants, and Superintendent of Reading

Room	\$1,408.37
Rent, taxes, and care of rooms	1,032.76
Books, stationery, periodicals, binding, &c.	1,636.99
Printing and advertising	174.56
Gas, fuel, and water-rates	533.09
Book-case, signs, tables, &c.	271.58
Petty expenses, — postal cards, expressage, postages, shovel, stove, dusters, &c.	72.19
	\$5,129.54

Additions to the Library during the year, 748. By purchase, 594; by donation, 154.

Gifts from persons whose names follow make up the last item: M. L. Huntley, 1 volume; P. H. Raymond, 1; Charles H. Allen, 28; William A. Parker, 18; Samuel Batchelder, 1; Mrs. C. B. Read, 1; Mary L. Clouston, 2; Commissioner E. P. Smith, 1; J. M. S. Williams, 2; E. R. Cogswell, 1; Mrs. Sarah Odiorne, 6; Alanson Bigelow, 74; C. A. Callender, 10; J. B. Wiggin, 2. Also 7 pamphlets have been given. The whole number of volumes in the Library is 7,420. The annual examination showed that 49 were missing, all of which are returned except 6; and these will soon be restored, all but two borrowers having been found.

In the month of June last Miss A. L. Hayward was appointed Librarian, superseding Miss C. F. Orne in the office.

The READING ROOM in connection with the Library, which was established by the Board of 1872, and was opened to the public early in the year 1873, was for that year kept on the lower

floor of the Union Hall building on Temple Street. But it was thought best, on account of the expense and inconvenience of that location, to remove it to the building in which the Library is situated. This was done early in the year ; and the Reading Room is now upon the same floor as the Library, the two being separated only by an entry. A saving has been made of about three hundred dollars a year. The average daily attendance of readers for 1873 was 26 ; for 1874, 30. The expense of maintaining this Room is about six hundred dollars annually.

The great accession to the list of subscribers, which is constantly increasing, and the opening of the Library daily, necessarily enhances the cost of maintenance. The circulation of this, as of all other public libraries about us, consists very largely of works of light character. It seems that the great majority of our borrowers read more for amusement than instruction. We have learned from the reports of several of the prominent libraries in the State that three-fourths of the issues are works of fiction. And this is the fact, too, in other parts of the country. Books of this sort are constantly called for, and of course require constant repair and renewal, while the more solid and valuable portions of the Library remain comparatively undisturbed. How far this taste for light reading shall be gratified is a matter for anxious consideration ; but it is hoped that we may be able to meet the public desire to a reasonable extent without placing upon our shelves books of a merely sensational character. This will be our endeavor ; and in order to meet the new demand upon us, and keep the Library up to the desired standard of efficiency and excellence in all respects, it is hoped that the City Council will place at the disposal of the Trustees for the year 1875 a sum not less than six thousand dollars. The Library is in pressing need of more room for the proper disposal of the books, and of a new catalogue, the preparation and printing of which will form no inconsiderable portion of the expense of the year to come. A new system of delivery must be adopted in order to economize the time of those employed in the Library, and enable them to meet with greater facility the demands upon them caused by the continuous increase of borrowers. Other

minor changes and improvements will be required in the administration of the affairs of the Library, which will be introduced as experience suggests the necessity.

Respectfully submitted.

ISAAC BRADFORD,
WILLIAM L. WHITNEY,
GEORGE F. PIPER,
JOHN S. MARCH,
JOHN B. TAYLOR,
CHARLES DEANE,

} *Trustees
of the
Dana Library.*

December 5, 1874.

REPORT
OF THE
TRUSTEES OF THE DOWSE INSTITUTE.

To the Honorable City Council of Cambridge: —

THE Board of Trustees of the Dowse Institute respectfully reports : —

From the Annual Report of the Treasurer it appears that the receipts were \$2,101.01, and the expenditures were \$2,095.80, leaving a balance in the treasury of \$5.21.

The course before the Institute last season was given in Union Hall, and consisted of Lectures by E. H. Chapin, Thomas Fitch, Wendell Phillips, E. C. Bolles, James Parton, J. T. Fields, and H. M. Gallaher; of Readings by J. W. Churchill and Henry Nicholls; and of two Concerts.

Respectfully submitted.

JOHN C. DODGE,	}	<i>Board of Trustees.</i>
ISAAC BRADFORD,		
W. W. WELLINGTON,		
W. A. BULLARD,		
GEORGE F. PIPER,		

December, 1874.

REPORT

OF THE

TRUSTEES OF THE SANDERS TEMPERANCE FUND.

To the City Council:—

THE Trustees of the Sanders Temperance Fund respectfully submit herewith their Tenth Annual Report for year ending Nov. 30, 1874.

The Fund (\$10,000) left as a legacy to the City by will of Charles Sanders, remains invested, as heretofore, in notes of the City, bearing interest at six per cent., and producing an income thereby of six hundred dollars, which has all been paid to the Missionary as salary.

In accordance with the requirements of the Ordinance relating thereto, Samuel C. Knights was again appointed as Missionary in April last, making the fourth year that he has held the position. His Report, accompanying this, gives a statement of the details of his observations and work during the year.

ISAAC BRADFORD,
JOHN MCSORLEY,
GEORGE F. PIPER,
JOHN J. FATAL,
ALEXANDER FRASER,

} *Trustees of
the Sanders
Temperance
Fund.*

CAMBRIDGE, Dec. 30, 1874.

REPORT

OF

SANDERS TEMPERANCE FUND MISSIONARY.

To the Trustees of the Sanders Temperance Fund : —

GENTLEMEN, — My labors during the past year as your Missionary have been similar to those of preceding years, and marked with as encouraging success.

I have attended the Police Court regularly, and have assisted in various ways eighty persons. But this public work has formed but a small part of my duties, as I find that my influence among families is often of the greatest benefit in results, although more quietly performed. My advice in many instances has been heeded ; and I am happy to be able to say that many of those whom I have stopped while on the down-hill road are now members in good standing of our various temperance societies.

I have held public meetings on Sunday evenings at the corner of Main and Norfolk Streets ; and the interest there awakened has been of great benefit in the community, as I believe it is owing to these meetings, in a great measure, that the practice of drinking among our young men has decreased.

Respectfully submitted.

SAMUEL C. KNIGHTS,

Missionary.

REPORT

OF THE

MILK INSPECTOR.

To his Honor the Mayor and Aldermen of the City of Cambridge:—

GENTLEMEN, — The undersigned most respectfully submits his Second Annual Report for the year ending Dec. 1, 1874:—

The milk trade of Cambridge is divided into three classes: 1st, Wholesale dealers selling from their wagons; 2d, Retail dealers selling from stores and shops; 3d, Parties keeping cows and selling to private families in their immediate neighborhood.

Number of wholesale dealers registered	49
Number of wholesale dealers now in business	48
Whole number of retail dealers registered	231
Number of retail dealers now in business	231
Number of persons keeping cows registered	66
Number of cows kept by those registered	104
Number of samples of milk analyzed by chemist	6
Number of samples of milk inspected by Inspector	340
Largest amount of added water found	36 per cent.
Number of complaints in Police Court	4
Number of convictions in Police Court	4
Number having appealed to Superior Court	2
Number of cases now pending in Superior Court and to be tried at the February term	2

Amount of fine paid by Edward F. Wright, of Concord, one of the parties convicted as above reported, \$50, together with the costs of prosecution and analysis, about \$19. Total of fine and costs, \$69. I have since tested several samples of milk left at

different stores by said Wright since his conviction as above, and found them to compare with the standard quality of pure milk.

Amount of fine paid by Stephen L. Wright, of Lexington, \$20, together with the costs of prosecution and analysis, about \$18. Total of fine and costs, \$38.

Amount of adulteration contained in the several samples sent to the chemist for analysis :—

No. 1.	
Specific gravity, 1.028.	Cream, 3%.
,, Caseine and fats	4.73
,, Sugar and salts	5.67
,, Water	89.60
Total	100.00

Considering the above sample as composed of pure cow's milk of average quality and water, its composition is as follows :—

Pure cow's milk	63.07
Water intentionally added	36.93
Total	100.00

The amount of added water in the above sample would be equivalent to two quarts, one pint, three gills, and six-tenths of a gill to an eight-quart can.

No. 2.	
Specific gravity, 1.028.	Cream, 9%.
,, Caseine and fats	6.06
,, Sugar, &c.	5.20
,, Ash	.72
,, Water	88.02
Total	100.00

This sample contains —

Pure cow's milk	80.79
Water intentionally added	19.21
Total	100.00

No. 3.

Specific gravity, 1.029.	Cream, 10%.
„ Caseine and fatty matter	6.49
„ Sugar and salts	5.10
„ Water	88.41
Total	100.00
Added water, 13.47%.	

No. 4.

Specific gravity, 1.030.	Cream, 6½%.
„ Water	88.66
Caseine and fats	5.69
Sugar and salts	5.65
Solids	11.34
Total	100.00
Added water, 24.13%.	

I have visited all places throughout the City where milk is publicly sold, and inspected one or more samples in each and every place. I have also inspected at the office several samples brought there by citizens, who supposed that the milk purchased by them was considerably extended by the addition of water or other substances. I have also visited private residences when I had reasonable cause to believe that the milk left was impure. I have also visited the several milk stations on the arrival of the cars conveying the milk from the country, in one instance at the suggestion of one of our Cambridge milkmen, and found upon inspection that the milk offered to him for sale by the owner of the car contained over 25 per cent of added water, according to the test applied. I forbade the delivery or sale of this milk, and it was returned to its original owners. In this case it will be seen that, if this milk was found in the possession of the dealer, he would be liable to prosecution, though innocent of any criminal act, and that the real criminal would escape the punishment he deserved. Therefore, in justice to the dealer as well as to the citizen, it is incumbent on the Inspector to make a thorough investigation in all cases brought

to his notice, and to feel satisfied beyond any doubt that the offender is guilty before bringing a criminal prosecution against him.

I have in every instance endeavored to do my duty to the citizens and justice to the dealers without fear or favor, and will continue that policy while acting as a servant of the City. The cost of analysis in each case has been paid from the City Treasury until the present year. Feeling this to be an unjust taxation upon the City, I requested the Court to add the expense of the analysis to the costs of prosecution charged to the defendant, if found guilty, and returned to the City Treasury. The Court so ruled, and the expense of analysis heretofore borne by the City is now in every case borne by the defendant and returned to the City Treasury.

The general inspection of milk in stores and shops must be attended to in the forenoon, as most of their customers are supplied in the early part of the day.

The Milk Law provides that inspectors shall keep an office and books for the purpose of recording the names and places of business of all persons engaged in the sale of milk within their limits, and proper books of account and record of all matters pertaining to the office. To this end the City Government of this year has furnished your Inspector an office, with all the conveniences required, in the new City building in Ward Four; and the office hours are devoted to the hearing of complaints in regard to the quality of the milk supplied, and also to receiving visits from parties interested in the milk trade of the City.

For further information in regard to the substances used in the adulteration of milk, I would refer the reader to my last year's Report.

The following extracts from the law may be of interest:—

By the law of 1859 it was enacted that "No person shall offer for sale in this Commonwealth milk produced from cows fed upon the refuse of breweries and distilleries, or any other substance which may be deleterious to the quality of the milk, under a penalty of ten dollars for each offence."

Acts of 1864, Chapter 122.

SECTION 2. The Inspectors shall keep an office and books for

the purpose of recording the names and places of business of all persons engaged in the sale of milk within their limits. They may enter any place where milk is stored or kept for sale, and all carriages used in the conveyance of milk; and whenever they have reason to believe any milk found there is adulterated they shall take specimens thereof and cause the same to be analyzed or otherwise satisfactorily tested, the result of which they shall receive and preserve as evidence, and a certificate of such results sworn to by the analyzer shall be admissible in evidence in all prosecutions under this act.

SECTION 4. Whoever neglects to cause his name and place of business to be recorded in the Inspectors' books and his name legibly placed upon all carriages used by him in the conveyance of milk before engaging in the sale thereof, shall forfeit twenty dollars for the first offence, and for a second and each subsequent offence, fifty dollars.

The law of 1872 is as follows : —

An Act to prevent the Sale or Exchange of Adulterated Milk.

Be it enacted, &c., as follows : —

SECTION 1. Whoever sells or exchanges, or has in his possession with intent to sell or exchange, or offers for sale or exchange, adulterated milk, or milk to which water or any foreign substance has been added, shall for the first offence be punished by a fine of not less than twenty nor more than one hundred dollars, and for any subsequent offence by a fine not less than fifty nor more than three hundred dollars.

SECTION 2. Whoever sells or exchanges, or has in his possession with intent to sell or exchange, or offers for sale or exchange as pure milk, any milk from which the cream or any part thereof has been removed, shall be liable to the penalties provided in the preceding section.

SECTION 3. Whoever knowingly sells or exchanges, or has in his possession, with intent to sell or exchange, or offers for sale or exchange, adulterated milk, or milk to which water or any foreign substance has been added, shall for the first offence be punished by a fine of not less than fifty nor more than three hun-

dred dollars, and for any subsequent offence by a fine not less than one hundred dollars, and imprisonment in the house of correction not less than thirty nor more than ninety days.

SECTION 6. This act shall take effect upon its passage.

Approved, May 4, 1872.

Acts of 1863, Chapter 140.

SECTION 3. It shall be the duty of the Inspector to cause the names and places of business of all persons convicted under the preceding section to be published in two newspapers printed in the town or county where the offence may have been committed.

All persons are most respectfully requested to send to my office, to be tested, samples of milk purchased by them of the purity of which there is any doubt, and are also requested to report to me any violation of any of the provisions of the above laws.

City Property now in the Inspector's Office.

One milk-jar, lactometer, and thermometer in case.

Respectfully submitted.

JOHN CAHILL.

Milk Inspector.

December, 1874.

REPORT

OF

SEALER OF WEIGHTS AND MEASURES.

To his Honor the Mayor and Aldermen of the City of Cambridge: —

GENTLEMEN, — The undersigned most respectfully submits his Second Annual Report for the year ending Nov. 30, 1874.

During the year I have visited all stores, shops, manufactories, and all places where scales, weights, or measures have been in use, and have tried, proved, adjusted, and sealed all scales, weights, or measures found in said places.

Number of places visited	558
„ „ scales sealed	864
„ „ „ adjusted	520
„ „ „ condemned	39
„ „ weights sealed	3,896
„ „ „ adjusted	1,011
„ „ „ condemned	120
Dry measures sealed	1,061
„ „ adjusted	309
„ „ condemned	47
Liquid measures sealed	1,450
„ „ adjusted	419
„ „ condemned	83
Yard-sticks sealed	192
„ „ condemned	7

The following table will show the business places visited during the year : —

Apothecaries	23	News Depots	7
Bakers	24	Paint	5
Bread and Cake	7	Paper Collar Manufactory	1
Book Binderies	3	Peruvian Syrup	1
Brush Manufactories	2	Plumbers	5
Boiler Shop	1	Pork Packers	3
Blank-book Manufactory	1	Stone Wharves	4
Brass and Iron Foundries	11	Stoves	8
Blacksmiths	3	Soap Works	13
Confectionery	24	Tailors	5
Cement	1	Tanneries	4
Coal and Wood	20	Tin Shops	6
Cigars and Tobacco	8	Groceries	195
Clothing	10	Groceries and Provisions	50
Cracker Bakeries	2	Grist Mill	1
Chemical Works	1	Hay and Grain	7
City Scales	5	Hay	4
Dry Goods	33	Hotel	1
Dressmakers and Milliners	5	Hardware	10
Furniture	1	Ice Yards	2
Fruit	5	Ice Tools	1
Fish	11	Junk Stores	3
Fancy Goods	9	Laboratory	1
Glass Factory	1	Variety	29
Machinists	5		

The impression seems to prevail among some of our citizens that an annual visit by the Sealer to the several stores and business places is unnecessary, believing that when a scale is once adjusted and balanced it must remain so. This is an erroneous idea, as from the constant wear and tear that scales are subjected to, and the careless handling of the same by employees and others, the rusting and wearing of the pivots, and from several other causes, they are continually getting out of order and balance, and the dealer, supposing they are correct (having no means of testing them), continues their use, innocently cheating either himself or his customers; and the only remedy to prevent this is the annual visit by the Sealer, when the proper tests are applied, and the scale is sealed and adjusted.

During my visit this year I found in use, at the store of one of our largest and most respectable grocers, a four-pound weight that was adjusted to a certain scale, and used upon another scale of a different manufacture; and the result was that the dealer lost one pound in every four, or, in other words, the purchaser paid for four

pounds and received five, of course causing a heavy loss to the dealer, as this weight had been in use about eight months. This is one of several instances of the same kind that have come to my notice.

By referring to the above table, it will be seen that 864 scales have been sealed throughout the City, 520 were out of order and had to be properly balanced and adjusted, and 39 were condemned. This condition of the scales shows conclusively that the annual visit is necessary for the protection, not only of the purchaser, but the dealer also. It is true that under the existing law in relation to weights and measures the Sealer has authority to compel all parties using such to bring them to his office once a year to be sealed; and the Sealer has no authority under the present law to enter any place of business for the purpose of making any test, unless the owner consents, or some person makes a complaint under oath, before some magistrate qualified to administer an oath, that he has reasonable cause to believe that a certain scale, weight, or measure used by the party to be complained of, is incorrect, and prays that the same may be tested according to law.

The enforcement of the law as above would subject our citizens to many inconveniences.

I would again most respectfully call the attention of the City Council to the necessity of placing all the City scales under cover when practicable, in order that the public weighers appointed by the City may at any and all times, when called upon, give the true standard weight of coal, iron, hay, or other materials brought to them for the purpose of being weighed.

The object of establishing public scales is principally for the purpose of protecting the purchaser from any frauds that may be committed on the part of the dealer; therefore nothing should be left undone to have the scales in proper working order and condition.

In the winter season, the scales being exposed as they now are to the weather, the accumulation of ice on the bearings and between the platform of the scale and the work in which it is set, retards the action of the scale, sometimes causing a variation of from ten to two hundred pounds to a ton.

The public scale at the junction of Main Street and Broadway, and under the charge of Major H. P. Ross, has been repaired, reset, and a new platform laid, this being necessary on account of the rottenness and dangerous condition of the old platform.

At the commencement of this year the Sealer requested in his Report that an office be furnished him, and fitted up with the instruments necessary to the proper performance of his duties. This request has been complied with, and the office located in the new City building in Ward Four, where the Sealer can be found every day to answer any demands made upon him by any person requiring his services.

The following extracts from the General Statutes and the Acts of the year 1870, relating to weights and measures, may be of interest : —

Chap. 218, approved May 6, 1870.

SECT. 1. All persons using scales, weights, measures, or milk-cans, for the purpose of selling any goods, wares, merchandise, or other commodities, shall have them adjusted, sealed, and recorded by the Sealer of weights and measures in the city or town in which they reside or have their usual place of business, and shall thereafter be responsible for the correctness and exactness of the same : Provided, however, that they shall have the right to have such scales, weights, measures, and milk-cans tested and adjusted at the office of the Sealer of weights and measures whenever they desire to do so.

SECT. 3. All persons using any scales, weights, measures, or milk-cans for the purpose of buying or selling any commodity, may have the same tested and sealed by the Sealer of weights and measures in the city or town where they reside or have their usual place of business, at his office, whenever they desire to have it done.

General Statutes, Chap. 51.

SECT. 16. Whoever sells by any other weights, measures, scales, beams, or balances than those which have been sealed as before provided, shall forfeit a sum not exceeding twenty dollars for each offence ; and when by the custom of trade they are pro-

vided by the buyer, if he purchases by any other weights, measures, scales, beams, or balances, he shall be subject to a like penalty, to be recovered by an action of tort to the use of the complainant.

General Statutes, Chap. 49.

SECT. 61. The dry measures shall be the sole authorized public standard for measuring all fruits, vegetables, and nuts, when the same are sold by measure. Whoever sells such articles by any other than dry measure shall forfeit and pay a sum not exceeding ten dollars for every such offence.

SECT. 62. Chestnuts, walnuts, cranberries, and all other berries, when sold, shall be measured by the strike or level measure, in the same manner as flaxseed, and other similar articles are measured.

Schedule of City Property contained in the Sealer's Office.

One set Avoirdupois Weights.

,, Balance in Cabinet.

,, set Standard Dry Measures.

,, ,, ,, Wine Measures.

,, brass Yard Stick.

,, set Avoirdupois Weights in case.

,, ,, Dry Measures (copper).

,, ,, Wine Measures (copper).

,, Yard Stick (wood).

,, pair Try Scales in case.

Forty fifty-pound weights (iron).

One Drill Stock and Drills.

,, Hammer.

,, Mallet.

,, Vise.

,, Wrench.

,, Knife.

Three Screw Drivers.

One pair Nippers.

,, ,, Cut Nippers.

,, Brand, letter C.

,, ,, two letter C.

Three Stamps, letter C.

Three Cases.

Four Files.

One Punch.

Half Bushel Flaxseed.

Small quantity of shot and lead.

One Charcoal Basket Measure in case.

Respectfully submitted.

JOHN CAHILL,

Sealer of Weights and Measures.

December, 1874.

REPORT

OF THE

CAMBRIDGE WATER BOARD.

To the City Council of the City of Cambridge: —

IN compliance with the duty imposed upon them by the City Ordinance, the Cambridge Water Board herewith make to you their Tenth Annual Report.

Cost of the Water Works.

Net cost of the Water Works Nov. 30, 1873, as	
per last year's Report	\$1,249,415.07
Expended for extension during the year ending	
Nov. 30, 1874	149,981.46
Making total cost Nov. 30, 1874	\$1,399,396.53

Comparative Receipts.

Receipts for water rates for the year ending Nov.	
30, 1874	\$153,634.27
Receipts for water rates for the year ending Nov.	
30, 1873	146,117.32
Showing increase for the year	\$7,516.95

In addition to this there is due to the Water Department from the City : —

Bills of 1873, as rendered	\$5,271.29
„ „ 1874, „ „	6,804.60
	12,075.89
Which if added would make the increase 1874 .	\$19,592.84

Statement showing the entire transactions in brief on account of the Water Works for the year ending Nov. 30, 1874 : —

Received.

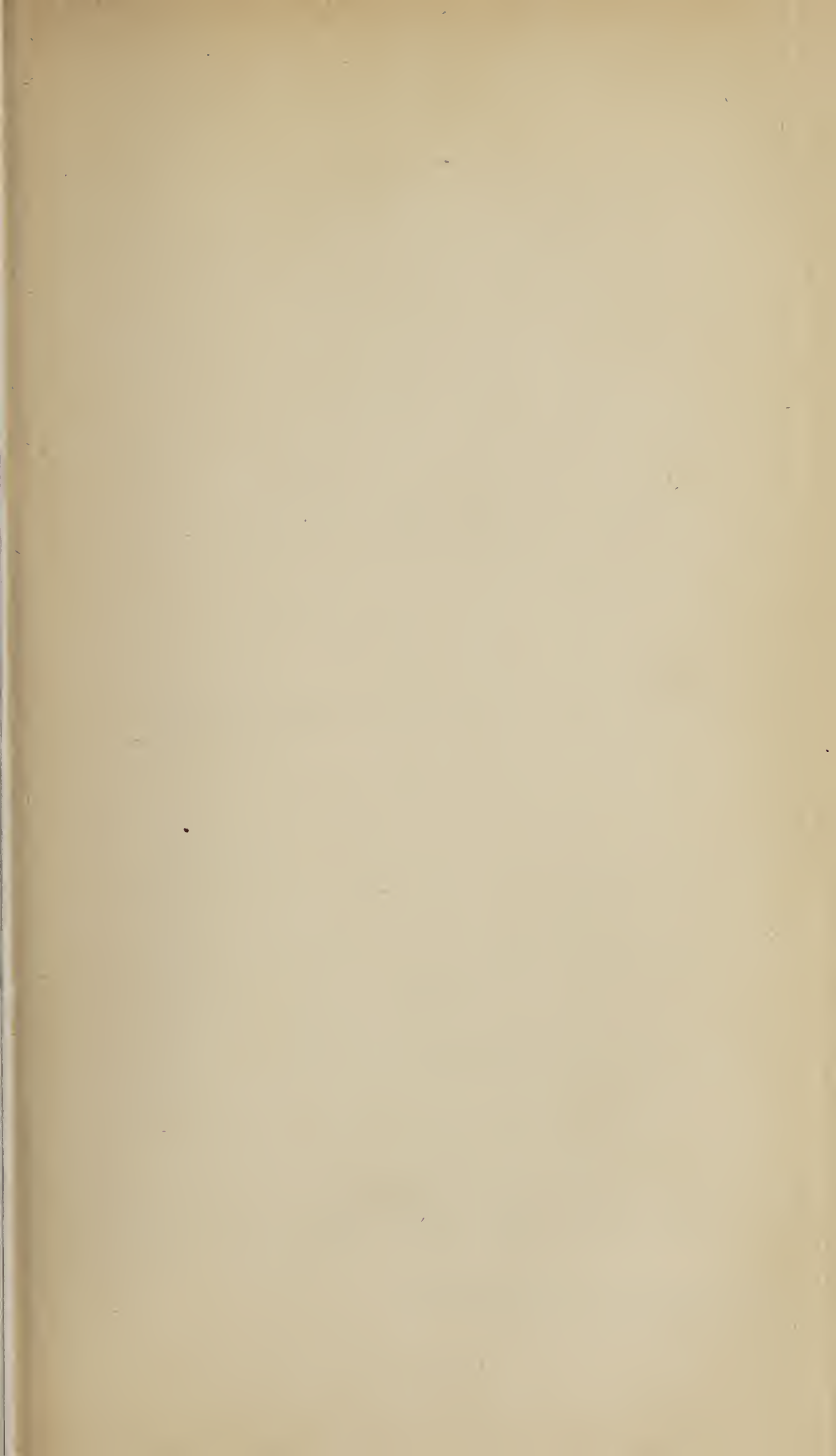
Amount of appropriation for extension	\$150,000.00
From water rates	153,634.27
From supply account and shutting off and letting on the water	16,016.85
From rent of house	150.00
,, interest on the Sinking Fund to June 30	13,270.62
,, ,, on current account	2,858.21
,, accrued interest on Water Bonds (sold)	4,455.00
	\$340,384.95

Expended.

For extension account	\$149,981.46
,, care and repair	29,491.20
,, supply account	13,349.23
,, interest on Water Debt to June 30, 1874	73,524.00
,, unexpended appropriation	18.54
Balance showing gain in 1874	74,020.52
	\$340,384.95

We are happy to be able to show the Water Works in so good financial condition, notwithstanding the amount already expended, and the need there will be of expending more to complete the work so well begun ; yet, if left undisturbed, in due time all the cost will be paid, while supplying our citizens with excellent water at a moderate price, and without imposing a burden upon any one.

We present to you a table showing the comparative rainfall, and also the height of water in the pond as compared with high-water mark, during the years 1873 and 1874, ending November 30 in each year.



	Rainfall. 1873. Inches.	Rainfall. 1874. Inches.	Below high- water mark. 1873. Inches.	Below high- water mark. 1874. Inches.
December	3.93	4.64	16	36.62
January	5.97	3.28	10	21.62
February	4.04	4.42	12	24.37
March	3.36	1.49	7.64	29
April	3.08	6.39	10	27.25
May	4.09	3.50	17	20.88
June	.50	3.87	27	23.50
July	3.67	2.54	46.50	33.75
August	5.07	6.82	41.50	35.37
September	3.22	1.52	47	45.38
October	4.28	1.07	50	54
November	4.89	2.33	43.50	59.62
Total	46.10	41.87		

From this table it will be seen that there were 4.23 inches less rainfall in 1874 than in 1873, and that there were 16.12 inches less water in the pond Nov. 30, 1874, than at the same time in 1873, making, at 5,000,000 gallons per inch, 80,600,000 gallons less in store at the end of this year than there were last year at the same time, and 248,100,000 gallons less than we had at the same time year before last.

By reference to the Superintendent's Report, we find that we pumped, in 1874, 839,188,100 gallons, while in 1873 we pumped 775,583,000 gallons, being an excess this year of 63,605,100 gallons, which is satisfactorily accounted for by the increased number of water-takers, and the larger amount taken for watering the streets.

Work Completed.

During the past year a large amount of work which was under contract at the commencement of the season has been finished, among which, as most prominent, we may name the following items : —

First. The new main pipe passing through Concord Avenue and Cambridge Street to East Cambridge, which gives to that portion of the City an abundant supply for all purposes, and with a full head of water.

Second. The new pumping-engine house has been completed,

and the land around it filled and graded. Connected with it is an ample boiler-house and coal-sheds, all arranged in a most convenient manner, and calculated for three Worthington pumps, two of which we have now ; and the third, when needed, may be of a capacity equal to both of our present pumps, ample room for which has been provided.

Third. The new 5,000,000 gallon duplex pumping-engine, which was under contract to be built for us by H. R. Worthington, Esq., with its boilers connected, has been completed, and set up in the new building, where it has been successfully at work for the past three months, supplying the City with water.

Fourth. The new conduit into the pond connecting with the well-rooms in the new engine-house is done, and has been in use since the new pump was started. The new conduit is laid more than four feet lower than the old one, and is carried out into much deeper water.

Fifth. A new iron fence has been built around the Reservoir as a matter of safety ; at the same time it adds very much to the beauty of the place, which is becoming more and more a place of resort for our citizens.

Thus it will be seen that much of the work which was in progress at the beginning of the year has been completed, and is now in working order. We may now look at some of the

New Work Done.

As soon as our new pump was at work, we had our old pump taken down, sent to New York, and thoroughly repaired, made to conform in appearance with the new pump ; and it is now being set up again in the new house. The old boilers have also been taken down, repaired, moved, and set up in the new boiler-house, and are all ready for work. The work of setting up the old pump will be completed in a few weeks, when we shall have two of Worthington's 5,000,000 gallon duplex pumps, both in the best possible condition, either of which will supply the City under ordinary circumstances. It is not expected that it will be necessary to run both pumps at the same time, except a few hours per day at

such times in the year as the consumption is greatest, or in case of an extra demand for fire purposes.

When our present pumping facilities are completed, which will be very soon, we can for the first time say that our *Water Works are duplicated throughout*; and no reasonable fear need be entertained of any failure in our supply of water on account of the inadequacy of our pumping power.

New Main Pipe Laid.

At the beginning of the year, among other things we asked an appropriation for connecting Fresh, Little, and Spy Ponds by a suitable conduit, and also for cleaning out the borders of the pond, where large quantities of vegetable matter have accumulated, contaminating the water, and exceedingly unsightly to look upon. During the earlier months of the year we had abundant rains, as you will see by the rainfall table. The water in the pond reached its highest point in May, and we were led to think that it was going to be a wet season, and unfavorable for doing the work we had laid out of connecting the ponds. We therefore looked round for the next most important work to be done in our Department. In that part of the City bounded by Pleasant, Main, and Mount Auburn Streets and the river, there was a very poor and inadequate supply of water for fire purposes, as the pipes were all small, while the territory described is thickly settled with wooden buildings. Our attention was called to this matter by both the Mayor and the Chief Engineer of the Fire Department. As the price of iron pipe was very low, we decided to apply the money which had been intended to connect the ponds towards laying a large main pipe through that section of the City, where it was so much needed. We therefore laid a 20-inch pipe from Holmes Place, on North Avenue, to the corner of Mount Auburn and Brighton Streets; thence a 24-inch pipe through Mount Auburn Street and Putnam Avenue to Green Street; thence a 16-inch pipe continuing in Putnam Avenue to Pleasant Street, where it connects with a cross main pipe from Cambridge Street, which is already laid. This work is a part of the plan adopted by the Board several years ago for piping the City.

New Work Recommended.

The result has proved that we were mistaken in the character of the season, as our pond has settled several inches lower than any record we have of it, and warns us that we cannot longer safely defer the work of connecting the ponds. Another important consideration, besides the scarcity of water, showing that this work should be done at once, is this: The City has turned several sewers into Alewife Brook, one of them near the outlet of the pond. It is also proposed to erect tide-gates on the brook, to prevent the tide from floating the sewerage up to the pond and over the meadows. After the brook is dredged out, what is wanted is a constant stream running out of Fresh Pond all the time through Alewife Brook, to carry down and away the sewerage in the brook. We think by connecting the ponds this can be accomplished, by making the waters of the other ponds run through and out of Fresh Pond whenever the same are in good condition for use.

The unprecedented low price of iron pipe, and the abundance of labor, lead us to think that it will be sound policy to extend still further some of the large main pipes in pursuance of the plan we have already referred to. We would recommend the coming year, 1st, to continue the pipe in Putnam Avenue to Sidney Street; 2d, a main pipe through Green Street to Sidney Street; thence through Sidney to Front Street and Main Street, connecting with the Columbia Street pipe; thence down Main Street to Portland Street, where we connect with another cross main pipe from Cambridge Street and Broadway.

We shall therefore at the proper time ask you for an appropriation on extension account, to enable us the ensuing year to do the following work: —

First. To connect Fresh, Little, and Spy Ponds by a suitable conduit, to make available the water supplied from those sources.

Second. To clean out the borders of Fresh Pond near our pumping works, where the bottom of the pond becomes exposed at low water.

Third. To lay some more main pipes, as hereinbefore more fully set forth.

Fourth. To provide suitable buildings to accommodate our engineers and firemen, those whom we are obliged to employ about the Works all the time, and who should be on the ground, where their services can be commanded at all times, night and day.

We recommend that application be made to the Legislature that the maximum of the Water Loan be increased from \$1,500,000 to \$2,000,000.

For the details of what has been done in the ordinary prosecution of the work connected with the Water Works, and for the present condition of the property and accounts connected therewith, we would refer you to the Reports of the Registrar and Superintendent herewith submitted.

It seems proper that we should here mention the interest taken by Jacob Hittinger, Esq., who owns a very large part of the land bordering on Fresh Pond, and who at no small expense keeps the borders of the pond opposite his land well cleaned out, in this respect setting for us an example well worth our following.

C. W. KINGSLEY,	}	<i>Cambridge Water Board.</i>
J. WARREN MERRILL,		
SAMUEL SLOCOMB,		
GEO. P. CARTER,		
H. L. EUSTIS,		

REPORT

OF

THE WATER REGISTRAR.

WATER REGISTRAR'S OFFICE, }
CAMBRIDGE, Dec. 1, 1874. }

To the Cambridge Water Board: —

GENTLEMEN, — As required by an Ordinance of the City, my Annual Report for the year ending Nov. 30, 1874, is respectfully presented, showing a statement of the receipts and expenditures for the year, and such other matters in the Department as are deemed important.

Receipts.

Water rates	\$153,634.27
Supply pipe, laying and repairing	15,491.60
Fines, off and on water	513.00
Rent of house, Pipe Yard	150.00
Sale of old junk	11.00
Sale of oil barrel	1.25
Total	\$169,801.12

All of which has been paid to the City Treasurer.
The increased amount of income for the financial
year over the previous year is \$8,692.14

Expenditures.

The expenditures for the care and management of the Works for the year ending Nov. 30, 1874, have been as follows: —

For care and repairs	\$9,286.40
For pumping service	14,218.65
For office expenses	5,986.15
Total amount	<u>\$29,491.20</u>

The large expenditure for pumping service includes a year's supply of coal now on hand.

The expenditures on the extension of the Works for the year ending Nov. 30, 1874, were	\$149,981.46
The expenditure on supply account was	13,349.23

Statement of the yearly revenue received from water rates, since the purchase of the Works by the City : —

From April 28, 1865, to Dec. 1, 1865	\$32,367.19
,, Dec. 1, 1865, ,, 1866	40,073.27
,, ,, 1866, ,, 1867	52,733.62
,, ,, 1867, ,, 1868	63,747.42
,, ,, 1868, ,, 1869	76,149.30
,, ,, 1869, ,, 1870	92,606.95
,, ,, 1870, ,, 1871	111,782.65
,, ,, 1871, ,, 1872	127,201.30
,, ,, 1872, ,, 1873	146,117.32
,, ,, 1873, ,, 1874	153,634.27
Total	<u>\$896,413.29</u>

In the last Report there were remaining off for non- payment of rates	15
Since shut off	248
	<u>263</u>
Let on	250
Still remaining off	<u>13</u>

There are at the present time one hundred and seven vacant houses in the City, for which no rate has been collected. The water has been shut off from these premises, so far as it could be done without interfering with parties connected with the same pipes who have paid their rates.

- 25 Boarding Houses.
- 21 Blacksmith Shops.
- 17 Bake-houses.
- 16 College Buildings.
- 16 Soap Manufactories.
- 14 Green-houses.
- 14 Public Halls.
- 12 Livery Stables.
- 12 Churches.
- 11 Fish Markets.
- 9 Billiard Halls.
- 9 Lodging Houses.
- 9 Coal Wharves.
- 8 Horse Railroad Stables.
- 8 Club Rooms.
- 8 Banks.
- 7 Machine Shops.
- 7 Furniture Manufactories.
- 6 Lumber Wharves.
- 6 Cow Pastures.
- 6 Stone Yards.
- 6 Marble Works.
- 6 Engine Houses.
- 5 Carpenters' Shops.
- 5 Police Stations.
- 5 Harness Shops.
- 5 Planing Mills.
- 5 Nurseries.
- 5 Carriage Manufactories.
- 5 Plumber Shops.
- 5 Bacon Works.
- 4 Public Houses.
- 4 Paint Shops.
- 4 Iron Foundries.
- 4 Book Binderies.
- 4 Photograph Rooms.
- 4 Slaughter Houses.

- 4 Cooper Shops.
- 4 Post-offices.
- 3 Printing Offices.
- 3 Cigar Manufactories.
- 3 Steam Railroad Depots.
- 3 Steam Railroads.
- 3 Box Manufactories.
- 3 I. O. O. F. Halls.
- 3 Aquariums.
- 3 Lard Works.
- 2 Glass Works.
- 2 Confectionery Manufactories.
- 2 Organ Factories.
- 2 Tin Ware Manufactories.
- 2 Club Stables.
- 2 Tallow Factories.
- 2 Private Schools.
- 2 Laboratories.
- 2 Masonic Halls.
- 2 City Stables.
- 2 Libraries.
- 2 Stereotype Foundries.
- 2 Boiler Manufactories.
- 2 Laundries.
- 2 Spring Bed Manufactories.
- 2 Sausage Manufactories.
- 2 Potteries.
- 1 Brush Manufactory.
- 1 Cider Refinery.
- 1 Chemical Works.
- 1 Ice Tool Manufactory.
- 1 Coffin Manufactory.
- 1 Fruit Preserving Company.
- 1 Cattle Yard.
- 1 Almshouse.
- 1 Brass Foundry.
- 1 Botanic Garden.

- 1 Brick Yard.
- 1 Currier Shop.
- 1 City Hall.
- 1 K. of P. Hall.
- 1 City Wharf.
- 1 Cemetery.
- 1 Drain Pipe Manufactory.
- 1 Distillery.
- 1 G. A. R. Hall.
- 1 Gas Works.
- 1 Gymnasium.
- 1 House of Correction.
- 1 Lead Pipe Works.
- 1 Museum of Comparative Zoölogy.
- 1 Lobster House.
- 1 Last Factory.
- 1 Ice Company.
- 1 Hardware Manufactory.
- 1 Paper Collar Manufactory.
- 1 Rolling Mill.
- 1 Sugar Refinery.
- 1 Swine Yard.
- 1 Grapery.
- 1 Bleachery.
- 1 Car Wheel Company.
- 1 Frame and Moulding Manufactory.
- 1 Oiled Hat and Clothing Manufactory.
- 1 Shoe Manufactory.
- 1 Milk Shed.
- 1 Freight Depot.
- 1 Conservatory of Music.

STATEMENT

SHOWING THE NUMBER AND KIND OF FIXTURES CONTAINED WITHIN THE PREMISES
OF WATER TAKERS IN THE CITY OF CAMBRIDGE, DEC. 1, 1874.

- 11,834 Faucets.
- 2,909 Water Closets.
- 2,664 Wash Bowls.
- 1,511 Bath Tubs.
- 1,335 Wash Tubs.
- 441 Slop Closets.
- 88 Garden Hydrants for Hand Hose.
- 78 Yard Hydrants for Family Use.
- 13 Private Fountains.
- 9 Tumbler Washers.

During the year, six meters have been applied, and six removed from the premises of water takers, making the total number now in use eighty-four. They are attached to a variety of manufacturing establishments, as follows :—

WHERE ATTACHED.	SIZE OF METERS.						
	$\frac{5}{8}$ in.	$\frac{3}{4}$ in.	1 in.	$1\frac{1}{2}$ in.	2 in.	3 in.	4 in.
A. H. Hews & Co	.	.	.	.	1	.	.
Bullard & Scott	.	.	.	1	.	.	.
Botanic Garden	.	.	1	.	.	.	.
Braman, Shaw, & Co.	.	.	.	1	.	.	.
Boston & Albany R. R. Co.	.	.	.	.	1	.	.
Boston & Lowell R. R. Co.	.	.	1	.	3	.	1
Boston Chemical Works	.	.	.	.	1	.	.
Boston Rolling Mill	.	.	.	.	1	.	.
Boston Stamping Manufacturing Co.	.	.	1	.	.	.	.
Boston Car Wheel Co.	.	1	.	.	.	.	.
Beal & Hooper	.	.	.	.	1	.	.
B. P. Clark & Co.	.	.	.	1	.	.	.
City of Cambridge	.	.	.	.	1	.	.
C. L. Jones	.	.	1	.	.	.	.
C. B. French	.	.	1	.	.	.	.
Cambridge Gas Light Co.	.	1	.	.	.	.	.
Cambridge Stamping Co.	1	1	.	.	.	.	.
C. H. North & Co.	.	.	.	.	1	.	.
Curtis Davis	.	.	.	1	.	.	.
D. G. Pratt	.	.	1	.	.	.	.
Doe & Hunnewell	.	.	.	1	.	.	.
Edgar L. Kinsley	.	.	.	.	1	.	.
Fitchburg R. R. Co.	.	.	.	.	1	.	.
Francis Draper & Co.	.	1	.	.	.	.	.
F. Geldowsky	.	.	.	1	.	.	.
G. G. Page & Co.	.	.	.	.	1	.	.

WHERE ATTACHED.	SIZE OF METERS.						
	$\frac{5}{8}$ in.	$\frac{3}{4}$ in.	1 in.	$1\frac{1}{2}$ in.	2 in.	3 in.	4 in.
George Woods & Co.	.	.	.	1	.	.	.
George O. Ladd & Co.. . . .	.	.	1	.	.	.	.
House of Correction	.	.	.	.	1	.	.
H. O. Houghton & Co.	.	.	1	.	.	.	.
Henry Thayer & Co.	.	.	.	.	1	.	.
Hancock & Greely	.	.	.	1	.	.	.
H. M. Clark	.	1	.	.	.	.	.
Holyoke House	.	.	.	.	1	.	.
J. P. Squire & Co.	.	1	.	.	1	.	.
John Wilson & Son	.	.	1	.	.	.	.
James D. Osborn	.	.	.	.	1	.	.
John Reardon & Sons	.	.	1	.	.	.	.
J. J. Gray	.	.	1	.	.	.	.
James C. Davis	.	.	1	.	.	.	.
Leonard Cox	.	1	.	.	.	.	.
Little, Brown, & Co.	.	.	1	.	.	.	.
Low & Knight	.	.	.	1	.	.	.
Mt. Auburn Cemetery	.	.	.	1	1	.	.
Mason & Hamlin	.	.	1	.	.	.	.
Middlesex Bleachery	.	1	.	.	.	.	.
Memorial Hall	.	.	.	.	1	.	.
New England Glass Co.	.	.	.	.	1	.	.
New England Brick Co.	.	.	.	.	2	.	.
O. S. Bullock	.	.	1	.	.	.	.
Oleomargarine Factory	.	1	.	.	.	.	.
Prospect House	.	.	.	1	.	.	.
Revere Sugar Refinery	.	.	.	.	1	.	.
Reversible Collar Co.	.	.	.	.	1	.	.
Sylvester Tower.	.	.	1	.	.	.	.
Sortwell & Co.	.	.	.	.	1	.	.
S. M. Cofran	.	.	.	.	1	.	.
St. Mary's Church	.	.	.	.	1	.	.
Theodore Downing	.	.	1	.	.	.	.
Union Glass Co.	.	1	2	.	.	.	.
Union Railway Co.	.	4	1	2	3	.	.
Woodbury & Co.	.	.	.	.	1	.	.
Welch, Bigelow, & Co.	.	1	.	.	.	.	.
Whittemore & Hale.	.	.	2	.	.	.	.
Walworth Manufacturing Co.	.	.	.	1	.	.	.

The annual inspection of all water fixtures has been made as required by the City Ordinance. In all places where waste was discovered, it has been stopped, and all leaky fixtures have been repaired.

Respectfully submitted.

A. F. FIFIELD,
Water Registrar.

REPORT

CONCERNING

THE ACCOUNTS OF THE WATER REGISTRAR.

IN CAMBRIDGE WATER BOARD, }
Jan. 29, 1875. }

THE Auditing Committee appointed on the accounts of the Water Registrar for the financial year ending Nov. 30, 1874, herewith submit the following

REPORT:

That they have examined the vouchers, books, and accounts of the Water Registrar, and find that the same are correct.

Respectfully submitted.

GEO. P. CARTER, }
SAMUEL SLOCOMB, } *Committee.*

REPORT

OF THE

SUPERINTENDENT OF THE WATER WORKS.

To the President of the Cambridge Water Board: —

DEAR SIR, — I have the honor to present the Ninth Annual Report to the Water Board as required by the City Ordinance concerning the Water Works of the City of Cambridge and the use of Fresh Pond water.

Pond.

The pond has been severely taxed the past summer, partly on account of the large amount of water used for watering streets, which consumed about a fourth part of the water pumped for a period of seven months, together with the addition of new takers and the long-continued drought of the season, which has reduced the water about ten inches below the lowest point ever before observed, which has afforded a good opportunity to remove, as far as possible, the vegetation within the border of the pond.

Engine House.

On the 14th of August the new pump in the new pumping building was started. This pump is connected with the new 48-inch conduit, which extends into the pond where there is 25 feet depth of water, enabling us to pump purer water, and is laid 5 feet below the old one, which has been removed, as it was partly out of water. Had we been obliged to depend on the old conduit for a supply of water for our well-room, we could not possibly have supplied the City this summer.

Force Main.

A 30-inch force main has been laid from the new pumping-house to the reservoir, which duplicates our entire pumping facilities. We have now, to supply the City with water, two Duplex Worthington Pumping Engines, of a daily capacity of 5,000,000 gallons each.

Reservoir.

The outer wall on the Walden Street side has been slightly disturbed by frost, and may soon have to be repaired. The banks and grass slopes are in excellent condition; and an iron fence has been erected on the inside stone coping around the reservoir, to prevent accident to children and visitors, and to keep dogs from swimming in the water.

Distribution Pipes.

Quite a number of small pipes have been taken up the present season, and pipes of larger sizes laid instead. These pipes have been laid by the day instead of by contract, as they are all short lines, where parties have petitioned for a supply of water, and subscribed the rates required by the Water Board. We have been compelled to change the location of a number of lines of pipe at a large expense, where they came in the way of sewers in progress of building. Permanent men are employed to make all repairs and put in all service-pipes from the street main to cellars of buildings, in accordance with the regulation of the Water Board.

Hydrants.

A large proportion of hydrants are of the old flush pattern. Since the request of the City Council was made, in the summer of 1873, none but post hydrants have been put in. The Board has adopted the Boston Machine Co.'s pattern. We have been very successful with them, owing to the good and careful management of the Fire Department. That they are the best hydrants yet invented there is no doubt; and the best proof of their superiority is the adoption of them by the Chief Engineer of the Fire Depart-

ment, after a very careful investigation of the merits of all kinds now in use in the country. All hydrants are in good working order, and continue to receive our close attention.

Drinking Fountains.

The drinking fountain in Harvard Square has been removed, and one of a different pattern substituted, making the total number fifteen. They are located as follows : —

North Avenue, corner of Walden Street.

Cambridge Common.

Harvard Square, opposite the store of Alfred Wood.

Brattle Square, opposite Brewer's Block.

Atwood's Corner, junction Cambridge and Hampshire Streets.

Cambridge Street, corner Fifth Street.

Bridge Street, junction of Cambridge Street.

Third Street, between Main Street and Broadway.

Hampshire Street, junction Broadway.

Broadway, corner Norfolk Street.

Lafayette Square, front of Universalist Church.

Central Square, opposite the store of J. A. Holmes & Co.

Central Square, opposite the store of D. U. Chamberlin & Co.

Fort Washington.

Putnam Avenue, corner Pearl Street.

Stand-Pipes for Street Watering.

Twelve stand-pipes for street watering have been erected the present season, making the total number now in use thirty-three, located as follows : —

Main Street, west of Quincy Street.

North Avenue, near the Common.

„ „ „ Forest Street.

„ „ „ Beech Street.

„ „ „ Day Street.

Concord Avenue, junction Garden Street.

Near University Press.

Inman Street, near Broadway.

Broadway, corner Winsor Street.

Columbia Street, near Austin Street.

Green Street, near Western Avenue.
Cambridge Street, at Atwood's Corner.
Cambridge Street, near Warren Street.
Gore Street, opposite School-house.
Otis Street, near Third Street.
Junction Bridge and Cambridge Streets.
Fifth Street, near Thorndike Street.
North Avenue, near Shepard Street.
Dana Street, corner Chatham Street.
Brattle Street, corner Sparks Street.
Broadway, corner Sixth Street.
Dublin Street, near Fitchburg Railroad, for filling locomotives
that run on track.
Broadway, near Third Street.
Western Avenue, near Howard Street.
Third Street, near Rogers Street.
Main Street, near Portland Street.
Magazine Street, opposite Warland Street.
Main Street, near Hancock Street.
Kirkland Street, near Quincy Street.
Brattle Street, near Fayerweather Street.
Brattle Street, near Fresh Pond Lane.
Cambridge Street, near Winsor Street.
Mount Auburn Street, near Athens Street.
North Avenue, near Spruce Street.

Service Pipes.

Diameter in Inches.	Number of Pipes.	Length in Feet.	TOTALS.	
			Number of Pipes.	Length in Feet.
2	32	1,908	32	1,908
1½	8	416	8	416
1¼	2	120	2	120
1	12	839	12	839
¾	363	25,488	363	25,488
Aggregate			417	28,771

The total number of supply pipes is 6,236.

STATEMENT OF LOCATION, SIZE, AND NUMBER OF FEET OF PIPE
LAID IN 1874.

IN WHAT STREET.	Diameter in Inches.	Feet of Pipe.
Acacia	4	48
Allen	4	180
Antrim	6	884
Ash Court	4	195
Boardman	4	160
Beaver	4	130
Brewery	4	176
Bridge	12	795
Bridge	6	773
Bristol	6	530
Broadway	6	250
Brookline	6	557
East	6	13
Flagg	4	132
Follen	4	160
Franklin	6	60
Front	4	50
Garden	6	415
Gore	8	1,010
Gore	6	407
Green	4	64
Hastings	4	1,234
Holyoke	4	130
J. P. Squire & Co.'s yard	6	108
Kinnaird	4	270
Langdon	4	250
Lawrence	4	265
Linden	6	16
Lincoln (Ward Four)	6	26
Lincoln (Ward Four)	4	570
Lowell	4	200
Madison	4	190
Mead	4	148
Milk	6	275
Mill	4	100
Mount Auburn St., from Brighton St. to Putnam Avenue	30	12
Mount Auburn St., from Brighton St. to Putnam Avenue	24	2,112
Mount Auburn St., from Brighton St. to Putnam Avenue	6	274
Mount Auburn St.	6	275
Murdock	4	26
Murdock Court	4	151
Munroe	6	228
North Avenue, Harvard Square, and Brighton Street to Mount Auburn Street	20	1,620
North Avenue, Harvard Square, and Brighton Street to Mount Auburn Street	6	110
Pearl	6	60
Pioneer	6	78
Portland	12	235
Putnam Avenue	24	130
Putnam Avenue	10	75
Putnam Avenue	6	106
Pumping Main	30	2,200

STATEMENT OF LOCATION, SIZE, &c. — *Continued.*

IN WHAT STREET.	Diameter in Inches.	Feet of Pipe.
Sixth	8	230
Sixth	6	106
Somerset	4	25
Tremont	4	37
Trowbridge	4	194
Tufts	4	135
Waterhouse	6	19
Wendell	6	315
Worthington.	6	104

GATES.

IN WHAT STREET.	Diameter in Inches.	Number.
Ash Court	4	1
Beaver	4	1
Boardman	4	1
Bridge	12	2
Bridge	6	6
Bridge	4	1
Bristol	6	2
Broadway	6	6
Cambridge	6	1
Cambridge Common	20	1
Flagg	4	1
Front	4	1
Garden	6	1
Gore	8	3
Gore	6	3
Gore	4	3
Hampshire	4	2
Harvard	10	1
Hastings	4	2
Holyoke	4	1
J. P. Squire & Co.'s Yard	6	1
J. P. Squire & Co.'s Yard	4	1
Kinnaird	4	1
Langdon	4	1
Lawrence	4	1
Lincoln (Ward Four)	6	1
Lincoln (Ward Four)	4	2
Linden	6	1
Lowell	4	1
Madison	4	1
Market.	4	1
Mead	4	1
Mount Auburn St., from Brighton St. to Putnam Avenue .	24	2
Mount Auburn St., from Brighton St. to Putnam Avenue .	6	11
Mount Auburn St., from Brighton St. to Putnam Avenue .	4	1
Munroe	6	2
Murdock Court	4	1
North Avenue	8	1
North Avenue	6	1

STATEMENT OF LOCATION, SIZE, &c. — *Continued.*

IN WHAT STREET.	Diameter in Inches.	Number.
North Avenue	3	1
North Avenue, Harvard Square, and Brighton Street to Mount Auburn Street	20 8	2 1
North Avenue, Harvard Square, and Brighton Street to Mount Auburn Street	6	2
North Avenue, Harvard Square, and Brighton Street to Mount Auburn Street	4	1
Portland	12	1
Putnam Avenue	16	1
Putnam Avenue	10	1
Putnam Avenue	6	1
Putnam Avenue	4	2
Reservoir	24	5
Sixth	10	1
Sixth	6	1
Third	12	1
Third	6	1
Tremont	4	1
Waterhouse	6	1
Wendell	6	1
Winter	6	1
Worthington	6	3

BLOW-OFF PIPES.

IN WHAT STREET.	Diameter in Inches.	Number.
Acacia	1½	1
Allen	1½	1
Ash	1½	1
Ash Court	1½	1
Bridge	1½	1
Brookline	1½	1
Gore	1½	1
Mount Auburn St., from Brighton St. to Putnam Avenue .	6	2
North Avenue, Harvard Square, and Brighton Street to Mount Auburn Street	6	1
Third	1½	1
Trowbridge	1½	1

RECAPITULATION.

[illegible]

GATES.

[illegible]

BLOW-OFF PIPES.

3 6-inch.
9 $1\frac{1}{2}$ „

STATEMENT

OF STOCK ON HAND EXCLUSIVE OF TOOLS AT SHOP.

Galvanized Pipe.

160 feet 2-inch.	600 feet $\frac{3}{4}$ -inch.
460 feet $1\frac{1}{2}$ -inch.	300 feet $\frac{1}{2}$ -inch.
1,000 feet $1\frac{1}{4}$ -inch.	100 feet $\frac{3}{4}$ -inch, rubber-coated.
600 feet 1-inch.	

Fittings for Service Pipes.

11 1-inch hose bibbs.	80 2-inch T's.
17 $\frac{3}{4}$ -inch hose bibbs.	45 $2 \times 1\frac{1}{2}$ -inch T's.
65 $\frac{1}{2}$ -inch compression bibbs.	40 $2 \times 1\frac{1}{4}$ -inch T's.
20 $1\frac{1}{4}$ -inch screw cocks.	30 $1\frac{1}{2}$ -inch T's.
12 1-inch screw cocks.	40 $1\frac{1}{2} \times 1\frac{1}{4}$ -inch T's.
70 $\frac{3}{4}$ -inch screw cocks.	30 $1\frac{1}{2} \times 1$ -inch T's.
11 1-inch sidewalk cocks.	20 $1\frac{1}{2} \times \frac{3}{4}$ -inch T's.
126 $\frac{3}{4}$ -inch sidewalk cocks.	80 $1\frac{1}{4}$ -inch T's.
75 1-inch M. & F. cocks for cement pipe.	40 $1\frac{1}{4} \times 1$ -inch T's.
8 $\frac{3}{4}$ -inch garden hydrant cocks.	25 $1\frac{1}{4} \times \frac{3}{4}$ -inch T's.
6 $1\frac{1}{2}$ -inch blow-off cocks.	80 1-inch T's.
6 $1\frac{1}{2}$ -inch corporation cocks.	250 $\frac{3}{4}$ -inch T's.
20 $\frac{3}{4}$ -inch corporation cocks.	275 $\frac{3}{4} \times \frac{1}{2}$ -inch T's.
6 2-inch cocks.	40 $\frac{1}{2}$ -inch T's.
6 $1\frac{1}{2}$ -inch cocks.	2 2-inch elbows.
11 1-inch cocks.	70 $1\frac{1}{2}$ -inch elbows.
6 2-inch stop and waste cocks.	80 $1\frac{1}{4}$ -inch elbows.
6 $1\frac{1}{2}$ -inch stop and waste cocks.	100 1-inch elbows.
12 $1\frac{1}{4}$ -inch stop and waste cocks.	38 $\frac{3}{4}$ -inch elbows.
13 1-inch stop and waste cocks.	25 $\frac{1}{2}$ -inch elbows.
61 $\frac{3}{4}$ -inch stop and waste cocks.	75 1-inch street elbows.
12 $\frac{3}{4}$ -inch hose nipples.	95 $\frac{3}{4}$ -inch street elbows.
100 $\frac{3}{4}$ -inch solder nipples and unions.	80 2-inch couplings.
6 fire hydrant stop and wastes.	90 $1\frac{1}{2}$ -inch couplings.
	12 $1\frac{1}{4}$ -inch couplings.
	420 1-inch couplings.

30 $\frac{3}{4}$ -inch couplings.	250 $\frac{3}{4}$ -inch socket ends.
300 $\frac{1}{2}$ -inch couplings.	15 garden hydrants.
15 1-inch air chambers.	6 2-inch nipples.
206 $\frac{3}{4}$ -inch air chambers.	50 $1\frac{1}{2}$ -inch nipples.
150 $\frac{1}{2}$ -inch air chambers.	50 $1\frac{1}{4}$ -inch nipples.
2 2-inch unions.	50 1-inch nipples.
25 $1\frac{1}{2}$ -inch unions.	30 $\frac{3}{4}$ -inch nipples.
30 $1\frac{1}{4}$ -inch unions.	50 $\frac{1}{2}$ -inch nipples.
20 1-inch unions.	6 2-inch plugs.
25 $\frac{3}{4}$ -inch unions.	6 $1\frac{1}{2}$ -inch plugs.
10 $\frac{1}{2}$ -inch unions.	10 $1\frac{1}{4}$ -inch plugs.
50 1-inch clips.	12 1-inch plugs.
90 $\frac{3}{4}$ -inch clips.	20 $\frac{3}{4}$ -inch plugs.
40 $\frac{1}{2}$ -inch clips.	15 $\frac{1}{2}$ -inch plugs.
20 2-inch crosses.	20 $2 \times 1\frac{1}{2}$ -inch bushings.
8 $2 \times 1\frac{1}{2}$ -inch crosses.	24 $2 \times 1\frac{1}{4}$ -inch bushings.
2 $2 \times 1\frac{1}{4}$ -inch crosses.	12 2×1 -inch bushings.
12 2×1 -inch crosses.	15 $2 \times \frac{3}{4}$ -inch bushings.
12 $1\frac{1}{2}$ -inch crosses.	10 $1\frac{1}{2} \times 1\frac{1}{4}$ -inch bushings.
12 $1\frac{1}{2} \times 1\frac{1}{4}$ -inch crosses.	14 $1\frac{1}{2} \times 1$ -inch bushings.
20 $1\frac{1}{2} \times 1$ -inch crosses.	12 $1\frac{1}{2} \times \frac{3}{4}$ -inch bushings.
30 $1\frac{1}{2} \times \frac{3}{4}$ -inch crosses.	17 $1\frac{1}{4} \times 1$ -inch bushings.
25 $1\frac{1}{4}$ -inch crosses.	12 $1\frac{1}{4} \times \frac{3}{4}$ -inch bushings.
20 $1\frac{1}{4} \times 1$ -inch crosses.	30 $1 \times \frac{3}{4}$ -inch bushings.
20 $1\frac{1}{4} \times \frac{3}{4}$ -inch crosses.	25 $\frac{3}{4} \times \frac{1}{2}$ -inch bushings.
12 1-inch crosses.	80 1-inch lock nuts.
15 $1 \times \frac{3}{4}$ -inch crosses.	100 $\frac{3}{4}$ -inch lock nuts.
12 $\frac{3}{4}$ -inch crosses.	40 $\frac{1}{2}$ -inch lock nuts.

Miscellaneous.

50 tons old junk.	1 large hand-pump.
4 wagons.	1 thawing stove.
2 hand-carts.	1 large boom derrick.
2 horses.	2 tons lead.
3 sets harnesses.	2 barrels clay.
1 pung.	200 pounds hemp packing.

Stock at Pipe Yard.

2 lengths 48-inch pipe.	2 8-inch clamp sleeves.
26 lengths 36-inch pipe.	1 6-inch clamp sleeve.
26 lengths 30-inch pipe.	1 30-inch $\frac{1}{16}$ bend.
20 lengths 24-inch pipe.	2 24-inch $\frac{1}{4}$ bends.
10 lengths 20-inch pipe.	1 24-inch $\frac{1}{8}$ bend.
192 lengths 16-inch pipe.	1 24-inch $\frac{1}{16}$ bend.
205 lengths 12-inch pipe.	2 16-inch $\frac{1}{8}$ bends.
375 lengths 10-inch pipe.	2 12-inch $\frac{1}{4}$ bends.
94 lengths 8-inch pipe.	10 10-inch $\frac{1}{8}$ bends.
532 lengths 6-inch pipe.	12 6-inch $\frac{1}{8}$ bends.
80 lengths 4-inch pipe.	12 6-inch $\frac{1}{4}$ bends.
1 20 $\times$ 12-inch cross.	2 16 $\times$ 6-inch blow-offs.
2 20 $\times$ 10-inch crosses.	1 20 $\times$ 6-inch blow-off.
1 20 $\times$ 6-inch cross.	10 hydrant pipes.
3 16 $\times$ 12-inch crosses.	1 24-inch T.
1 16 $\times$ 6-inch cross.	1 24 $\times$ 12-inch T.
1 12-inch cross.	1 24 $\times$ 8-inch T.
6 12 $\times$ 10-inch crosses.	3 24 $\times$ 6-inch T's.
13 12 $\times$ 6-inch crosses.	1 20-inch T.
3 12 $\times$ 4-inch crosses.	3 20 $\times$ 12-inch T's.
4 10 $\times$ 6-inch crosses.	4 20 $\times$ 6-inch T's.
6 8 $\times$ 4-inch crosses.	8 16 $\times$ 6-inch T's.
6 6 $\times$ 4-inch crosses.	2 12-inch T's.
12 4-inch crosses.	7 12 $\times$ 6-inch T's.
2 30-inch sleeves.	3 12 $\times$ 4-inch T's.
4 24-inch sleeves.	1 12 $\times$ 8-inch T.
5 20-inch sleeves.	24 10 $\times$ 6-inch T's.
6 16-inch sleeves.	1 10 $\times$ 4-inch T.
18 12-inch sleeves.	1 8 $\times$ 8-inch T.
7 10-inch sleeves.	4 8 $\times$ 6-inch T's.
8 8-inch sleeves.	1 8 $\times$ 4-inch T.
10 6-inch sleeves.	10 6 $\times$ 4-inch T's.
12 4-inch sleeves.	16 4-inch T's.
2 24-inch clamp sleeves.	1 24 $\times$ 10-inch reducer.
4 12-inch clamp sleeves.	1 20 $\times$ 12-inch reducer.
2 10-inch clamp sleeves.	2 16 $\times$ 6-inch reducers.

3 12 × 10-inch reducers.	1 16-inch gate.
2 12 × 8-inch reducers.	3 12-inch gates.
3 10 × 8-inch reducers.	8 10-inch gates.
3 10 × 6-inch reducers.	2 8-inch gates.
1 8 × 6-inch reducer.	6 6-inch gates.
9 6 × 4-inch reducers.	6 4-inch gates.
4 4 × 3-inch reducers.	1 4-inch meter.
1 12-inch cap.	1 1½-inch meter.
8 10-inch caps.	3 1¼-inch meters.
5 6-inch caps.	4 1-inch meters.
10 4-inch caps.	6 ¾-inch meters.
8 10-inch offsets.	2 large frames and covers.
34 6-inch offsets.	6 frames and covers.
9 4-inch offsets.	12 small frames and covers.
24 6-inch offsets, double.	

Stock at Engine House.

1,059 tons of coal.	25 gallons lard-oil.
1 bale cotton waste.	5 gallons kerosene oil.
30 pounds Martin's packing.	1 rotary pump.
30 gallons cylinder oil.	And all the requisite tools.

Finally, the following officers and men's services are required in the management of the Works : —

In Office at City Hall.

- 1 Water Registrar.
- 1 Assistant Clerk.
- 1 Inspector of fixtures, bill distributor, &c.

On the General Management and Work.

- 1 Superintendent.
- 3 Foremen.
- 7 Permanent men employed as jointers and repairers.

At Pumping Works.

- 1 Engineer.
- 1 Assistant Engineer.
- 2 Firemen.

Two horses owned by the City are constantly used on the work.

When a large number of men are employed by the day in laying long lines of large main pipes, none are hired but those who reside in Cambridge, whose duty it is to work in harmony with each other and for the good of all concerned, under the direction of the Water Board.

Respectfully submitted.

S. W. DUDLEY,

Superintendent.

REPORT

OF

THE SCHOOL COMMITTEE FOR 1874.

DURING more than half of the year past the Committee have been deprived of the co-operation of a Superintendent of Schools ; but as the vacancies existing in their number were filled early in the year, and as they have lost no members by death, they have been able, it is believed, to give to their charge as much attention as it has ordinarily received.

SUPERINTENDENT OF SCHOOLS.

Within the past year, upon the application of the School Committee of Cambridge, the Legislature has authorized the School Committees of the State to appoint Superintendents of Schools and to fix their salaries. Availing themselves of this permission, the Committee have elected to the office named Mr. Francis Coggswell, formerly Master of the Putnam Grammar School. During the four months of his Superintendency the Committee have enjoyed a much-needed relief in their conviction that the condition and needs of the schools were now a matter of careful study to one who has had an admirable success in the practical work of the teacher ; and from such views and suggestions as Mr. Coggswell has been able to present during his brief tenure of the office, the Committee look forward with confidence to a quiet and healthful progress in the future history of the schools, which shall be worthy of the advances that have been made in our City during past years.

HEAD AND MASTER'S ASSISTANTS.

Within the past year the salaries of a few of the Grammar School teachers have been increased about fifteen per cent. It has been deemed necessary to recognize the fact that the more experienced teachers are required to perform special duties, and to bear a part of the care and responsibility which come upon the Master of the school. Accordingly several teachers in each Grammar School have been appointed to be either head or master's assistants, and an increased compensation has been assigned to them in view of their increase of service. In this arrangement the City has the further advantage of securing its hold upon many of its best and most experienced teachers.

FREE DRAWING SCHOOLS.

“The Free Evening Drawing School” was suspended for two years, owing to the lack of room for its accommodation. Upon the completion of the new City Building, in Ward 4, two rooms were designated for the use of the school in the third story of the building. Both of these are inadequate in size and inconvenient in form of construction. Of late the Ward-room, which furnishes admirable accommodations, has been opened for the Drawing School.

After some months of delay, consequent upon a lack of power on the part of the Sub-Committee, the rooms were furnished; and on the 17th of November the school commenced, under the superintendence of Messrs. B. W. Putnam and E. Rose. The rooms have accommodated fifty pupils in the mechanical department, and thirty in the free-hand. The school is held four evenings a week, each class having two sessions. Over two hundred applications were filed, and forty or fifty persons were denied the privileges of the school, on account of the inadequate accommodations.

There have been thirteen sessions of each class, or twenty-six sessions in all; and the progress has been very commendable.

The importance of a knowledge of the art of drawing is coming to be felt by our artisans, in respect both to mechanical construc-

tion and to skill in designing. In both of these departments we are far behind England, France, and Germany; our illustrations, for example, though often finely finished, lacking power of design. It is hoped that a knowledge of this art will not only tend to relieve the monotony of labor by enabling the workman to read and understand a plan, but will also contribute largely to bring out the inventive powers of our people.

TRUANT OFFICERS.

The summary of the reports of the truant officers shows that during the year past they have received 6,556 complaints; that in 3,440 instances excuses have been rendered by parents. It has been found that 2,029 of the instances of absence were occasioned by illness, and 401 of them by destitution: 86 of the pupils who were absent for the last-named reason have been furnished with clothing; and 156 pupils have been brought into the schools through the efforts of the officers.

It is also gathered from these reports, that 1,104 complaints for disobedience have been made to the officers; that there have been 483 cases of truants' first offence, 143 cases of the second offence, and 64 cases of the third offence; that there have been 44 habitual truants on probation, and that 30 have been sentenced.

It may be added, that, although some of these totals are sufficiently large, they do not represent the amount of work. In addition to their many visits to the homes of the pupils, the officers have attended the Evening Schools, and during the vacation they visited the manufacturing establishments where children are employed. In their report upon this subject they say: "We find a marked improvement since our last visit. The proprietors and the foremen express a willingness to comply with the requirements of the law."

Upon petition of the School Committee of this City to the General Court, the power of the truant officers was increased, so that they could perform all duties relating to the subject-matter under their charge. It is safe to say that a large share of the increased attendance upon the schools is due to their faithfulness and efficiency.

The policy of sending truants to the Almshouse, to associate with boys sentenced for offences of a more serious nature, has often been referred to by the Committee. It seems needful to call attention again to the necessity of a separation of these classes, and to the desirableness of establishing a separate ungraded school, where not only truants may be sent, but also other offenders against school discipline, the presence of some of whom affects a school more disastrously than even the irregularity of the truant does.

THE HIGH SCHOOL.

This admirable school has maintained for another year its high standing. We take satisfaction in the belief that in none of the classical academies are superior advantages furnished, or better results reached, than in its Latin department; while the English department is all that could be desired, in its own distinct sphere.

If criticism is to be expressed, we would raise the question whether the course of study is not becoming too wide and exacting. There are facts seeming to indicate over-pressure, which demand careful consideration, and which seem to justify the opinion of the High School Committee that the course should not be any farther enlarged.

Provision is already demanded for increased accommodation for pupils. The number of pupils entering this year was so large that it was found necessary to fit up a recitation-room in the basement. If the number entering next year should be as large, the building can hardly be made to accommodate them. Different plans for meeting the necessities of the case have been suggested. One is to enlarge the present building, a plan involving serious objections, if not altogether impracticable. The other plans contemplate the erection of a second High School building. In such a building another school like the present High School might be organized; or a division of the sexes might be made, so that one building should be used for the instruction of the boys, the other for that of the girls; or the English and Classical departments might be separated into two great schools, — English and Latin. Without entering into the arguments, which will be better presented at another time, we look upon the plan last mentioned as

the one having the most to commend it, and the fewest objections to overcome.

EVENING SCHOOLS.

The Superintendent of Schools states, as part of the results of his observations upon the Evening Schools, that the novelty which lent them some attractions when they were first established has quite passed away. For several years after these schools were opened, numbers of persons came to them for a few evenings and then absented themselves, attending again irregularly, and coming apparently to see what was to be seen, or to while away a leisure hour. The greater part of those who now enter the Evening Schools come for the purpose of learning. The attendance is quite regular, and an earnest spirit is manifested in the work.

The progress which is made in the studies pursued by no means exhibits the full amount of the benefits which these schools confer. Their value can be estimated only when we remember in what ways many who attend would be tempted to spend their evenings if they did not spend them here, and what advantages are gained in forming the mind to some habits of study, however slight, instead of allowing it to sink in indolence and dissipation.

The attendance the present season has been larger than at any former time, — the whole number of scholars having been 478; of whom 324 were boys, and 154 were girls; with an average attendance of 326, — 226 on the part of the boys, and 100 on the part of the girls.

SCHOOL-HOUSES.

During the year the Sargent School-house has been remodelled, and it is now one of the pleasantest Primary buildings in the City. An additional room, to which reference has been made, has been finished in the basement of the High School building; several of the school-yards have been paved; and a new Primary School-house has been contracted for, to be erected on the corner of Oxford and Sacramento Streets.

One year ago the Superintendent of Schools had the satisfaction of reporting that most important improvements had been made in the school accommodations; referring to the fact that three large

school houses — the Shepard, the Allston, and the Webster — had been thoroughly remodelled, and adapted to the wants of the schools. All the advantages claimed by those who favored the alterations made in these houses have been fully realized. It is hoped, therefore, that during the coming year the Thorndike School building, which is arranged upon the same general plan as those were to which reference has been made, will be changed, to conform in arrangement to the other Grammar School-houses, — giving the Thorndike School the same conveniences and advantages now enjoyed by the other schools. The plan of this house is such that the proposed alterations can be made at a cost much less than that of any one of the three mentioned.

From year to year reference has been made to the Old High School-house, now occupied by a Primary School. No change has been made in the arrangement of the building since it was used for the High School. Even a portion of the furniture supposed to be of suitable size for High School scholars has been made to answer for the little ones.

This house is a substantial brick building, situated where a Primary School is needed, and, if remodelled, would be one of the valuable school-houses in the City. There can be no doubt that the time will come when the alterations desired will be made. Is it wise, therefore, to postpone the work, and, by so doing, allow the prosperity of the school to be affected?

Attention is also called to the accommodations furnished to the school known as the Bridge Primary. The house contains one large school-room, with chairs and desks for 79 pupils. The school is so large as to require the instruction of two teachers; and the only place to which a class can be taken for a recitation is an unwarmed room 6 feet 9 inches by 10 feet 6 inches, lighted by four small panes of glass. This room, or entry as it really is, has three doors leading into it, — two from the outside, and one from the large room. Into this small, poorly lighted, unventilated place, there are gathered for instruction, when the weather is not too cold to prevent it, from fifteen to twenty scholars. Simple justice to those who send children to that school requires that better accommodation be provided.

FREE TEXT-BOOKS.

In making a thorough introduction of the system of industrial drawing, it seemed desirable to the Committee that the expense of books and materials should be assumed by the City. An order to this effect was met by an adverse opinion of the City Solicitor, which was based upon the fact that there is no statute under which the Committee or City Government could act in the premises. The subject is one of much interest to the community. In the neighboring State of Maine an Act of the Legislature was passed several years since, giving to the cities and towns the power to furnish to pupils all school materials at the public cost. Under this statute several cities are now acting, with results which are regarded by intelligent friends of education in that State as highly satisfactory. We trust that an opportunity will be given, at no distant day, to make a trial of this system in our City. For the information of many who will be interested in the subject, we quote from the report of the Superintendent of Schools in Lewiston, Me., for the year 1873. His statement is thus referred to by the Committee of that year, Governor Nelson Dingley being its chairman: "The effect of this liberal policy on the part of the City fully justifies its wisdom." The Superintendent mentions the following among the advantages of the plan:—

(1) *Books are ready at the proper time.* Previously much time had been lost to scholars, and much inconvenience had been caused to teachers, especially at the beginning of the school year, by delays in procuring the proper books.

(2) *No odious distinctions are made in the public schools.* Formerly the furnishing of books to the needy was a mark of pauperism; but now, all being supplied alike, no such wound is inflicted upon the self-respect of any.

(3) *Books furnished by the City are much more carefully kept than when owned by children.* This results from the fact that there are four parties who are interested in the preservation of these books,—school officers, teachers, parents, and children.

(4) *The free supply of books increases school time.* Not having to wait for books, children enter school more promptly in all the grades; and they remain longer, especially in the higher grades,

where premature withdrawals from school have been largely due to the inability to meet the expense of the more costly text-books.

(5) *Text-books are of much less expense to the City than to citizens.* Citizens usually pay retail prices for books; the City procures them for 40 per cent. less; while on stationery and on books, for first introduction, a still greater reduction is made. Then, too, books, when owned by the City, are used in the classrooms by successive classes, until, like other tools, they become too much worn for further use; but, when owned by individuals, school books, owing to promotions, removals, and changes, are usually thrown aside before they are half worn out. It is thought, upon a fair estimate, that school-books cost the City less than one quarter of the amount of their cost to citizens.

ISAAC BRADFORD, *Chairman ex officio.*

EDWIN B. HALE,

ANDREW P. PEABODY,

ALEXANDER McKENZIE,

EDWARD R. COGSWELL,

WILLIAM S. KARR,

HENRY HINCKLEY,

ALBERT L. NORRIS,

SAMUEL W. McDANIEL,

GEORGE A. COBURN,

JAMES A. DOW,

GEORGE E. McNEILL,

GEORGE R. LEAVITT,

PHILIP R. AMMIDON,

WILLIAM S. APSEY,

JABEZ A. SAWYER,

} *School
Committee.*

TABULAR VIEW

OF

THE PUBLIC SCHOOLS OF CAMBRIDGE,

JANUARY 1, 1875.

Name of School.	Teachers.	Salary.	No. of Scholars, Jan. 1, 1875.
High School,	Lyman R. Williston	\$4,000	398
	William F. Bradbury	2,500	
	John Orne, Jr.	2,000	
	Theodore P. Adams	2,000	
	Solon F. Whitney	2,000	
	Mary F. Peirce	1,200	
	Emma A. Scudder	1,000	
	Hannah Gleason	1,000	
	Augusta L. Brigham	1,000	
	Olive E. Fairbanks	1,000	
	Emma F. Munroe	900	
	Mary C. C. Goddard	900	
Allston Grammar,	Benjamin W. Roberts	2,500	566
	Lizzie B. Winnett	850	
	Emma F. King	800	
	Sarah G. Hinkley	800	
	Emily R. Pitkin	800	
	Lucia E. Whiting	700	
	Susan H. Ricker	700	
	Hattie E. Keith	700	
	Emma E. Perkins	700	
	Hannah L. Hill	700	
	Mary L. Holman	700	
	Henrietta Woods	700	
	Ida G. Smith	700	
	Aaron B. Magoun	2,500	
	H. Augusta Dodge	850	
	Ada H. Wellington	800	
	Mary E. Wyeth	800	
Harvard ,,	Margaret B. Wellington . . .	800	657
	Lydia S. King	700	
	Susan F. Athearn	700	
	Margaret R. Hodgkins	700	
	Annie M. Leland	700	
	Susan E. Merrill	700	
	Emily F. Damon	700	
	Sarah E. Golden	700	
	Sarah E. Hearsey	700	
	Ellen Merrick	700	
	Sarah E. Dyer	700	
	Mary F. Emerson	700	
	James S. Barrell	2,500	
	Sarah M. Burnham	850	
	Ella R. Grieves	800	
	Eliza M. Hussey	800	
	Addie Stone	700	
Putnam ,,	Charlotte A. Brown	700	390
	Augusta G. Mirick	700	
	Carrie Close	500	
	Marion H. Burnham	500	
	Sarah L. Merrill	700	

TABULAR VIEW OF THE PUBLIC SCHOOLS.—*Continued.*

Name of School.	Teachers.	Salary.	No. of Scholars, Jan. 1, 1875.
Shepard Grammar	Daniel B. Wheeler	\$2,500	424
	Mary C. Cook	850	
	John Wilson	800	
	Emma M. Taylor	800	
	H. Estelle Varney	800	
	Sara J. French	700	
	Sarah A. Rand	700	
	Julia H. Osgood	700	
	Harriet L. Hayward	700	
	Sarah F. Gordon	700	
Thorndike „	Cora M. Wheeler	600	482
	Ruel H. Fletcher	2,500	
	Ellen N. Parker	850	
	Martha A. Martin	800	
	Mary E. Nason	800	
	Isabella B. Tenney	800	
	Ella W. Clark	700	
	Ruth H. Faxon	700	
	Mary A. Willis	700	
	Fanny Allen	700	
Washington „	Grace W. Fletcher	500	508
	Emma A. Hopkins	700	
	Abbie K. Howard	700	
	Daniel Mansfield	2,500	
	Hattie T. Nealley	850	
	Lucy A. Downing	800	
	Adeline M. Ireson	800	
	Emma F. Veazie	800	
	Abby M. Webb	700	
	Adelaide A. Keeler	700	
Webster „	J. Abbie Hodgkins	700	607
	Dora Puffer	700	
	Adelia Dunham	700	
	Ada E. Doe	700	
	Medora E. White	700	
	John D. Billings	2,500	
	Gertrude E. Hale	850	
	Louise C. D. Harlow	800	
	Charlotte M. Chase	800	
	May E. Towle	800	
Boardman Primary,	Gertrude A. Hyde	700	335
	Esther F. Hannum	700	
	Hattie E. Warfield	700	
	Susan B. Holmes	700	
	Emily H. Phinney	500	
	Anna S. Lamson	700	
	Henrietta F. Cheney	500	
	Clara E. Matchett	700	
	Eliza K. Brackett	700	
	Mary Agnes Lewis	700	
	Sarah E. Stewart	700	
	Adah W. Baker	700	
	Fanny A. Cooke	700	
	Nettie Sargent	700	
	Augusta L. Balch	700	
	S. N. Chamberlain	600	
	Eliza A. Dow	700	

TABULAR VIEW OF THE PUBLIC SCHOOLS. — *Continued.*

Name of School.	Teachers.	Salary.	No. of Scholars, Jan. 1, 1875.
Bridge Primary	Elizabeth E. Dallinger . . .	\$700	77
	Emily C. Dallinger	700	
Dana "	Abby A. Lewis	700	92
	Maria F. Williams	700	
Dunster "	Sarah B. Waitt	700	131
	Susan E. Wyeth	700	
	Mary E. Smallidge	700	
	M. Louise Ackerman	600	
Felton "	Ella L. Lynes	700	235
	Lizzie C. Capen	700	
	Georgiana L. Backus	600	
	Sarah L. Cutler	600	
	Eliza J. Cutler	500	
	Augusta M. Houghton	500	
Gannett "	Sarah J. A. Davis	700	234
	Lucy C. Wyeth	700	
	Estelle J. French	700	
	Anna M. Jones	600	
	Charlotte E. Mitchell	700	
Gore "	Harriet A. Butler	700	406
	Frances E. Pendexter	700	
	Alice J. Winward	700	
	Mary E. Hartwell	700	
	Addie M. Bettinson	700	
	Agnes M. Cox	700	
	Jeanie A. Norris	700	
	Mary A. Bourne	500	
Harvard "	Ellen A. Cheney	700	112
	Helen M. Ward	700	
Holmes "	Marianne M. Webb	700	208
	Eunice W. Field	700	
	Mary L. Bullard	700	
	Louisa G. Matchett	600	
Mason "	M. Lizzie Evans	700	128
	Alma A. Smith	700	
Otis "	Abby S. Taylor	700	418
	Lydia A. Whitcher	700	
	Martha H. Butler	700	
	Ellen N. Pike	700	
	Luvia Goodnow	700	
	Annie Knapp	700	
	Kate F. Wellington	700	
	Carrie H. Smith	600	
Putnam "	Nellie F. Ball	700	55
Quincy "	Charlotte E. Jewell	700	105
	Talulah G. Abercrombie . . .	600	
Reed "	Lucy T. Sawyer	700	165
	Evelyn A. Sawyer	700	
	Elizabeth A. Tower	700	
	Hattie N. Keyes	700	
Sargent "	Anna M. Harrod	700	182
	Frances J. Harrod	700	
	Mary A. Brown	600	
	M. Elizabeth Dickson	600	
Willard "	Mary Ann Tarbell	700	472
	Mary E. Sawyer	700	
	Susan M. Cochrane	700	

TABULAR VIEW OF THE PUBLIC SCHOOLS.—*Continued.*

Name of School.	Teachers.	Salary.	No. of Scholars, Jan. 1, 1875.
Willard Primary,	Kate M. Lowell	\$700	166
	Fanny E. Cooke	700	
	Amelia Wright	700	
	H. Flora Hannum	700	
	Evelina Brooks	500	
	Laura Wright	600	
	Grace R. Woodward	500	
Wyman ,,	Fanny E. M. Dennis	700	166
	Charlotte A. Ewell	700	
	Letitia M. Dennis	600	
	Martha C. Dickman	700	
Training School,	Anna C. Sullivan	1,000	201
	Ella C. Whitney	800	
	M. Etta Arkerson	800	
	Emma B. Alley	800	
	Jenny Prescott	500	
City ,,	Etta S. Adams	800	62
	Nellie A. Hutchins	700	

TEACHER OF SINGING,—Nathan Lincoln \$2,500
 SUPERINTENDENT OF SCHOOLS,—Francis Cogswell 3,000

SUMMARY.

Number of Pupils in High School	398
,, ,, ,, ,, Grammar Schools	3,634
,, ,, ,, ,, Primary Schools	3,784
	<u>7,816</u>

COST OF INSTRUCTION.

High School	\$19,500	for each pupil, \$48.99
Grammar Schools	76,150	,, ,, ,, 20.95
Primary ,, ...	56,400	,, ,, ,, 14.90
Music	2,500	
Salary of Superintendent	3,000	

\$157,550 ,, ,, ,, \$20.16

Number of pupils belonging to Public Schools, Jan. 1, 1875	7,816
,, ,, ,, ,, ,, ,, ,, Jan. 1, 1874	<u>7,379</u>

Increase during the last year 437

Increase of pupils, 1860	272
,, ,, ,, 1861	172
,, ,, ,, 1862	262
,, ,, ,, 1863	226
,, ,, ,, 1864	200
,, ,, ,, 1865	58
,, ,, ,, 1866	243
,, ,, ,, 1867	286
,, ,, ,, 1868	330
,, ,, ,, 1869	20
,, ,, ,, 1870	296
,, ,, ,, 1871	357
,, ,, ,, 1872	293
,, ,, ,, 1873	246
,, ,, ,, 1874	437

Number of Schools	27
,, ,, Teachers	184

ORDINANCES PASSED IN 1874.

AN ORDINANCE ABOLISHING THE OFFICE OF SUPERINTENDENT OF PUBLIC BUILDINGS.

THE Ordinance creating the office of Superintendent of Public Buildings is hereby repealed.

[*Adopted March 4, 1874.*]

AN ORDINANCE REPEALING SECTION ONE OF THE ORDINANCE RELATING TO SCHOOLS.

Section one of the twenty-first chapter of the Revised Ordinances, requiring the School Committee annually to appoint a Superintendent of Public Schools, is hereby repealed.

[*Adopted March 11, 1874.*]

AN ORDINANCE IN RELATION TO COLLECTION OF JUNK.

Chapter fourteen of the Revised Ordinances is hereby amended by striking out the second section thereof, and inserting in its place the following:—

SEC. 2. No person shall, without a license from the Mayor and Aldermen, collect or deal in junk, old metals, rags, or second-hand articles; and every wagon, cart, sleigh, sled, or other vehicle, used in the collection of junk, old metals, rags, or second-hand articles, shall have the owner's name and number of his license placed upon the outside of each side thereof, in plain legible words and figures, of not less than one and one-half inches in length, and so that the same may be distinctly seen.

No holder of such license shall, directly or indirectly, either purchase, or receive by way of barter or exchange, any of the articles aforesaid, of any minor or apprentice, knowing or having reason to believe him to be such ; and said vehicles shall at all times be subject to the inspection of the Mayor and Aldermen, or of any person by them authorized.

Said licenses shall not be transferable ; and the person receiving a license for the collection of junk shall pay for the same, to the use of the City of Cambridge, a fee of five dollars.

[*Adopted April 1, 1874.*]

AN ORDINANCE IN RELATION TO THE ELECTION OF CERTAIN
CITY OFFICERS.

The Superintendent of Streets and the City Messenger shall hereafter be elected in the month of April annually.

The Clerk of Committees shall hereafter be elected in the month of April, to hold office for one year from the first Monday of June following his election, and until his successor is elected.

All ordinances and parts of ordinances inconsistent herewith are hereby repealed.

[*Adopted April 15, 1874.*]

AN ORDINANCE IN RELATION TO MOVING BUILDINGS.

No building shall be moved through any of the streets of the City until the chimneys of said building shall have been taken down even with the roof.

[*Adopted April 22, 1874.*]

AN ORDINANCE IN AMENDMENT OF THE "ORDINANCE IN
RELATION TO STREETS."

Section eight of chapter seventy-five of the Revised Ordinances is hereby amended, by adding thereto the words, "And

in case of the blockade or obstruction of any street, lane, or alley, he shall cause a notification of such blockade or obstruction to be left at each of the several engine-houses throughout the City."

[*Adopted June 1, 1874.*]

AN ORDINANCE IN AMENDMENT OF THE ORDINANCE IN
RELATION TO HEALTH.

Section ten of chapter thirteen of the Revised Ordinances is hereby amended, by inserting after the word "night-soil" the words "or blood," and by striking out the words, "for that purpose," in the third line of said section, and inserting the words, "for either of those purposes."

[*Adopted July 6, 1874.*]

AN ORDINANCE IN AMENDMENT OF THE ORDINANCE IN
RELATION TO HEALTH.

The seventh and eighth sections of chapter thirteen of the Revised Ordinances are hereby amended by inserting after the word "vault," wherever it occurs, the words, "or cesspool connected with a water-closet."

[*Adopted Oct. 5, 1874.*]

AN ORDINANCE IN AMENDMENT OF AN "ORDINANCE IN ADDITION
TO THE ORDINANCE RELATING TO ACCOUNTS AND FINANCE."

Section four of the "Ordinance in addition to the Ordinance relating to Accounts and Finance," is hereby amended, by inserting after the word "bridges," in the fourteenth line thereof, the words, "from assessment for raising and improving low lands," and by adding after the word "Board," in the last line, the words, "and the receipt of said Board shall be a sufficient voucher for all moneys thus paid over by the Treasurer."

[*Adopted Nov. 2, 1874.*]

AN ORDINANCE IN AMENDMENT OF THE ORDINANCE IN
RELATION TO HEALTH.

Section three of chapter thirteen of the Revised Ordinances is hereby amended by inserting after the word "dwelling-house" the words, "and every building occupied as a manufactory."

Section four of said chapter thirteen is also amended by inserting after the word "dwelling-house" the words, "or of any building occupied as a manufactory."

[*Adopted Nov. 23, 1874.*]

AN ORDINANCE IN AMENDMENT OF THE ORDINANCES IN
RELATION TO STREETS.

Section thirty of chapter twenty-five of the Revised Ordinances is hereby amended by striking out all after the word "within," and adding in place thereof the words, "the City limits."

[*Adopted Nov. 23, 1874.*]

AN ORDINANCE IN AMENDMENT OF THE ORDINANCE IN
RELATION TO THE FIRE DEPARTMENT.

Section two of chapter ten of the Revised Ordinances is hereby amended by striking out the word "January," and inserting in place thereof the word "April."

[*Adopted Nov. 23, 1874.*]

AN ORDINANCE IN AMENDMENT OF THE ORDINANCE IN
RELATION TO LAMPS.

Section one of chapter fifteen of the Revised Ordinances is hereby amended by striking out the words, "at the commencement of each municipal year," and inserting in place thereof the words, "in the month of April."

[*Adopted Dec. 7, 1874.*]

AN ORDINANCE IN AMENDMENT OF THE ORDINANCE IN
RELATION TO ACCOUNTS AND FINANCE.

SEC. 1. Section one of chapter one of the Revised Ordinances is hereby amended by adding after the word "unexpended," in the fifteenth line of said section, the words, "and also the amount, as near as may be, of all outstanding contracts and bills chargeable to each of said appropriations."

SEC. 2. Section six of said chapter one is also amended by adding after the word "Accounts" the words, "and the Chairman of the several Committees shall furnish to the Committee on Accounts monthly statements, as far as practicable, of the amount of all outstanding contracts and bills chargeable to their several appropriations."

[*Adopted Dec. 15, 1874.*]

GOVERNMENT
OF
THE CITY OF CAMBRIDGE,

1875.

MAYOR.

HON. ISAAC BRADFORD.

ALDERMEN.

WALTER S. BLANCHARD, GEORGE H. HOWARD,
BENJAMIN F. DAVIES, JOHN H. LEIGHTON,
RUSSELL S. EDWARDS, SAMUEL L. MONTAGUE,
LEANDER GREELY, JONAS C. WELLINGTON,
LEANDER M. HANNUM, WILLIAM L. WHITNEY.

ALDERMEN, BY WARDS.

Ward I. Alderman WHITNEY.
Ward II. Aldermen BLANCHARD and MONTAGUE.
Ward III. Aldermen DAVIES, HOWARD, and LEIGHTON.
Ward IV. Aldermen GREELY and HANNUM.
Ward V. Aldermen EDWARDS and WELLINGTON.

CLERK.

JUSTIN A. JACOBS.

COMMON COUNCIL.

GEORGE F. PIPER, *President*.

Ward I.

LEMUEL KEMPTON,
CHARLES MOORE,JOHN T. G. NICHOLS,
WALTER S. SWAN.

Ward II.

HENRY D. FORBES,
THOMAS A. GRAHAM,DAVID HEFFERNAN,
JAMES MELLEN, Jr.,
HIBBARD P. ROSS.

Ward III.

JOHN CLARY,
WILLIAM E. DOYLE,ALEXANDER FRASER,
JOSEPH J. KELLY,
CHARLES QUINN.

Ward IV.

FRANK A. ALLEN,
EDMUND REARDON,SULVILYER H. SANBORN,
JOHN STONE.

Ward V.

JEREMIAH MURPHY,

GEORGE F. PIPER.

CLERK.

J. WARREN COTTON.

PAGE.

ALLAN P. KELLY.

CITY CLERK.

JUSTIN A. JACOBS.

CITY MESSENGER.

ROLAND LITCHFIELD, JR.

COMMITTEES OF THE CITY COUNCIL.

JOINT STANDING COMMITTEES.

ON FINANCE.

The MAYOR.

Aldermen.

William L. Whitney,
Samuel L. Montague.

Common Council.

The President,
Edmund Reardon,
James Mellen, Jr.,
Joseph J. Kelly,
Walter S. Swan,
Frank A. Allen.

ON PUBLIC INSTRUCTION.

Aldermen.

Benjamin F. Davies,
Leander M. Hannum.

Common Council.

The President,
Joseph J. Kelly,
Henry D. Forbes,
Walter S. Swan.

ON ORDINANCES.

Aldermen.

Walter S. Blanchard,
Leander Greely.

Common Council.

John T. G. Nichols,
John Stone,
Henry D. Forbes.

ON ACCOUNTS.

Aldermen.

Russell S. Edwards,
George H. Howard.

Common Council.

John Clary,
Frank A. Allen,
John T. G. Nichols.

ON PUBLIC PROPERTY.

Aldermen.

Leander M. Hannum,
Samuel L. Montague.

Common Council.

John Clary,
Lemuel Kempton,
Jeremiah Murphy.

ON THE ALMSHOUSE.

Aldermen.

Samuel L. Montague,
Jonas C. Wellington.

Common Council.

Alexander Fraser,
William E. Doyle,
David Heffernan.

ON ROADS AND BRIDGES.

Aldermen.

William L. Whitney,
Walter S. Blanchard.

Common Council.

Edmund Reardon,
Thomas A. Graham,
Charles Quinn.

ON FUEL.

Aldermen.

Benjamin F. Davies,
Samuel L. Montague.

Common Council.

Alexander Fraser,
Charles Moore,
David Heffernan.

ON LAMPS.

Aldermen.

Leander M. Hannum,
Russell S. Edwards.

Common Council.

Charles Quinn,
Hibbard P. Ross,
Charles Moore.

ON WATERING STREETS.

Aldermen.

George H. Howard,
Leander Greely.

Common Council.

James Mellen, Jr.,
Lemuel Kempton,
Jeremiah Murphy.

ON PRINTING.

Alderman.

William L. Whitney.

Common Council.

John Stone,
Sulvilyer H. Sanborn.

ON THE FIRE DEPARTMENT.

Aldermen.

George H. Howard,
Leander Greely.

Common Council.

Sulvilyer H. Sanborn,
Thomas A. Graham,
Lemuel Kempton.

ON CITY ENGINEERING.

Aldermen.

Walter S. Blanchard,
Russell S. Edwards.

Common Council.

Hibbard P. Ross,
Joseph J. Kelly,
William E. Doyle.

ON ASSESSORS' DEPARTMENT.

Alderman.

John H. Leighton.

Common Council.

Charles Moore,
Hibbard P. Ross.

JOINT SPECIAL COMMITTEE.

ON SOLDIERS AND THEIR FAMILIES.

Aldermen.

Jonas C. Wellington,
John H. Leighton.

Common Council.

John T. G. Nichols,
James Mellen, Jr.,
William E. Doyle,
John Stone,
Jeremiah Murphy.

Standing Committees of the Board of Mayor and Aldermen.

ON POLICE.

The Mayor,
William L. Whitney,

Samuel L. Montague,
John H. Leighton.

ON THE FIRE DEPARTMENT.

George H. Howard,
Leander Greely,
Jonas C. Wellington.

ON ROADS AND BRIDGES.

William L. Whitney,
Walter S. Blanchard,
Benjamin F. Davies.

ON SEWERS AND DRAINS.

Leander Greely,
Jonas C. Wellington,
John H. Leighton.

ON LICENSES.

Russell S. Edwards, Leander M. Hannum,
George H. Howard.

ON HEALTH.

John H. Leighton, William L. Whitney,
Walter S. Blanchard.

Standing Committees of the Common Council.

ON ELECTIONS AND RETURNS.

Alexander Fraser, Edmund Reardon,
Thomas A. Graham.

ON BILLS IN THE SECOND READING.

John Clary, Frank A. Allen,
David Heffernan.

ON ENROLLED ORDINANCES.

Sulvilyer H. Sanborn, Henry D. Forbes,
Walter S. Swan.

Clerk of Committees.

J. Warren Cotton.

Board of Health.

THE MAYOR AND ALDERMEN.

Health Officers.

George H. Copeland, Benjamin F. Bridden,
Timothy Ames, Amos Jones,
Warner W. Simonds, Leonard Shackford,
Andrew G. Smith, Thomas D. Cook.

Ward III.

Samuel W. McDaniel, John O'Brien,
Albert L. Norris.

Ward IV.

George E. McNeil, James A. Dow,
George R. Leavitt.

Ward V.

William S. Apsey, Philip R. Ammidon,
Theophilus G. Wadman.

Secretary.

W. W. Wellington.

Superintendent of Schools.

Francis Cogswell.

Overseers of the Poor.

The Mayor, *ex officio*, *Chairman*.

ONE YEAR.

Benjamin F. Wyeth,
George D. Chamberlain,
Jeremiah H. Mulcahy.

TWO YEARS.

Sylvanus M. Parsons,
Joseph Newmarch,
Lewis B. Guyer.

Clerk.

Benjamin F. Wyeth.

Warden of the Almshouse.

JOSEPH W. AVERILL.

Physician of the Almshouse.

JAMES R. MORSE, M.D.

Cambridge Cemetery.

Commissioners.

The Mayor, *ex officio*.

George T. Gale,

Curtis Davis,

William Page,

— — —

George S. Saunders,

John M. Tyler.

Superintendent.

James K. Farwell.

Trustees of Dana Library.The Mayor, *ex officio*, *Chairman*.

Alderman.

Common Council.

William L. Whitney.

George F. Piper.

Citizens at Large.

John S. March,

Charles Deane,

John B. Taylor.

Librarian.

Secretary.

Miss Almira L. Hayward.

John S. March.

Cambridge Water Board.The Mayor, and President of the Common Council, *ex officio*.

Samuel Slocomb,

Chester W. Kingsley (President),

J. Warren Merrill,

Henry L. Eustis,

George P. Carter.

Clerk.

Justin A. Jacobs.

Trustees of Sinking Fund of Water Loan.

The Mayor, City Treasurer, and the President of the Common Council.

Commissioners on Sinking Funds of the City.

The Mayor, City Treasurer, Alderman Whitney, and the President of the Common Council, *ex officio*.

Lewis Hall,

Hamlin R. Harding,

John M. Tyler.

Superintendent of Water Works.

Samuel W. Dudley.

Water Registrar.

Abiel F. Fifield.

Trustees of the Sanders Temperance Fund.

The Mayor, and President of the Common Council, *ex officio*.

Alderman.

Common Council.

Jonas C. Wellington.

John Clary,

John Stone.

Trustees of the Dowse Institute.

The Mayor, and President of the Common Council, *ex officio*.

John C. Dodge,

William W. Wellington,

Willard A. Bullard.

Representatives in General Court.

Levi L. Cushing, Jr.,

Edward Kendall,

Daniel H. Thurston,

Austin C. Wellington,

Jeremiah W. Coveney.

Police Court.

Standing Justice.

JOHN S. LADD.

Special Justices.

Henry W. Muzzey,

Woodward Emery.

Clerk.

Thomas McIntire.

City Solicitor.

JOHN W. HAMMOND.

City Engineer.

JOSIAH G. CHASE.

Commissioner on West Boston and Craigie's Bridges.

EZRA PARMENTER.

Superintendent of Streets.

GEORGE L. CADE.

Superintendent of Lamps.

JOHN CAHILL.

Board of Engineers.

Chief Engineer.

PATRICK H. RAYMOND.

Assistant Engineers.

First Assistant	Thomas J. Casey.
Second Assistant	Richard F. Tobin.
Third Assistant	Daniel O'Connell.
Fourth Assistant	John P. Farmer, Jr.

Clerk of the Board.

John P. Farmer, Jr.

Police Department.

Chief of Police.

GEORGE H. COPELAND.

Captains of Police.

DISTRICT I.

Timothy Ames.

DISTRICT II.

William Twist.

DISTRICT III.

John L. Boynton.

Captain of Night Police.

Frederick W. Hagar.

Policemen.

DISTRICT I.

Thomas D. Cook,
James B. Morse,
Micah W. Cook,
Andrew Sproul,
Andrew G. Smith,
George A. Marston,
Benjamin Kennard,
L. J. Cloyes,
William T. Gibson,
James Miller,

Leonard Shackford,
Daniel Callahan,
William H. Fitzpatrick,
John Le Barron,
Frederic B. Pullen,
Albert D. Cleveland,
Henry M. Tyler,
Alonzo S. Harriman,
Thomas W. Penney,
William Evans, Jr.,

Hugh McNamee.

DISTRICT II.

Benjamin F. Bridden,
Daniel Sherman,
James H. Parks,
George Wood,
Warner W. Simonds,
John Coleman,
Calvin C. Smith,
Luther Hapgood,
Simon D. Hiscock,
Rufus S. Downe,

George Cox,
Charles B. Jones,
James E. Murray,
John Little,
Thomas S. Hall,
Charles W. Rugg,
William Nickelson,
Lawrence Ducy,
Michael A. Dalton,
James Daily,

James S. Alexander.

DISTRICT III.

William Mullett,
Dennis Corcoran,
Moses W. Hooper,
John F. Murray,
Matthew R. Moore,
Amos Jones,

David N. McCleary,
Stephen E. Day,
John Collier,
Warren A. Eaton,
Otis Dennison,
John W. Skelley,

John Jackson.

Special Policemen.

P. H. Raymond,
Thomas J. Casey,
Joseph H. Marvin,
Samuel W. Dudley,
Daniel O'Connell,
John P. Farmer, Jr.,
Thomas H. Eames,
Edward F. Belcher,
Roland Litchfield,
Charles L. Russell,
William L. Locklin,
G. C. W. Fuller,
J. L. P. Ackers,
Charles H. Wiggin,
B. A. Brown,
Lucius A. Buck,
James F. Jefferds,
Joseph W. Averill,
Roland Litchfield, Jr.,
James C. Wilder,
Thomas McIntire,
James K. Farwell,
Hiram Nevons,
James M. Learned,
George Henderson,
George Dale,
Jesse H. Kittredge,

Benjamin F. Livingston,
Charles A. Gay,
James W. Lovering,
George B. Lothrop,
Orlando B. Richardson,
Richard F. Tobin,
Charles H. Winslow,
Joseph Collins,
E. G. Hall,
George T. Barrington,
Michael Ginty,
John L. Sproul,
Joseph Smith,
William Kelly,
E. F. Young,
George Putnam,
Thomas Briney,
George S. Pike,
William H. Grieves,
A. A. Barker,
G. E. S. Hutchins,
William Martin,
F. W. Blumve,
Joseph G. Glazier,
Joseph Moran,
Joshua S. Sanborn,
George W. Wright,

George Smith,
Charles P. Allen,
Samuel F. Hunt,
George J. Sutton,
Joseph Bebo,
Alexis Brusseau,
Anthony Chalifrau,
Patrick Dunnigan,
Moore R. Homer,
Thomas Cowen,
Noah M. Cofran,
John Mahady,
Alex. F. Shepherd,
Edward E. Farrar,
William Hunnewell,
Daniel R. Melcher,
John Hughes,
Frank Goudraw,
Fred. H. Greenwood,
Frank J. Curtis,

George W. Metcalf,
George T. R. Roberts,
George Stott,
Charles A. True,
Joseph K. Tarbox,
John McGrath,
Walter E. Mellish,
Joseph Baker,
Thomas Langlan,
Jacob Foster,
Thomas J. Saunders,
George H. Sherman,
George E. Goodwin,
Francis M. Mason,
Mark J. Folsom,
Moses M. Child,
George S. Dudley,
Augustus P. Griffing,
William Porter,
Charles H. Stetson,

John Axtman.

Keeper of Lock-ups.

George H. Copeland.

Truant Officers.

Mark J. Folsom,
Moses M. Child,

George S. Dudley,
Augustus P. Griffing,
Francis M. Mason.

Constables.

George H. Copeland,
William Twist,
John L. Boynton,
John C. Burdakin,
Thomas Work,
Thomas McIntire,

Patrick H. Raymond,
Thomas T. Ferguson,
Timothy Ames,
John Cahill,
M. S. Busnach,
William Dickson,

Charles H. Hunnewell,
Charles J. Adams,
James F. Jefferds,
John W. Skelley,
Warner W. Simonds,
Thomas D. Cook,
Charles L. Russell,
Benjamin King,

Edward S. English,
W. A. Taylor,
Amos Jones,
George F. McKenzie,
E. B. Ramsdell,
Michael A. Keenan,
Reuben A. Adams,
George L. Mitchell,

Calvin Ford.

Superintendent of Burial Ground,

Ward I.

Benjamin F. Wyeth.

Undertakers.

Benjamin F. Wyeth,
Roland Litchfield,
Samuel F. Hunt,
Thomas Devens,
John W. Coveney,
Judson Litchfield,

William Casey,
C. Henry Lockhart,
Alvah A. Hadley,
Benjamin J. Hoyt,
W. A. Taylor,
William C. Walker.

Auctioneers.

Samuel R. Knights,
G. C. W. Fuller,
Oliver R. Osborn,
Humphrey L. Snow,
Samuel F. Rugg,
Thomas T. Ferguson,
C. F. Boynton,
John C. Farnham,
John L. Porter,
Edward Burnham,
George C. Hosmer,

Benjamin King,
Michael James Moss,
Orrin P. Kinne,
John R. Fairbairn,
Edward H. Carter,
George F. McKenzie,
Samuel C. Knights,
Jeremiah W. Coveney,
James C. Wilder,
John Cahill,
T. W. Ray,

George O. Knox,
Henry A. Burkett,

Reuben A. Adams,
Edwin P. Henderson.

Fence-Viewers.

George B. Lothrop, Abiel Goss,
Abel Stevens.

Field-Drivers.

Thomas D. Cook,
James B. Morse,
Micah W. Cook,
Andrew Sproul,
Andrew G. Smith,
George A. Marston,
Benjamin Kennard,
L. J. Cloyes,
James Miller,
William T. Gibson,
Benjamin F. Bridden,
Daniel Sherman,
James H. Parks,
George Wood,
Warner W. Simonds,
John Coleman,
Thomas S. Hall,
Charles W. Rugg,
William Mullett,
Dennis Corcoran,
Moses W. Hooper,
John F. Murray,
Leonard Shackford,
Daniel Callahan,
William H. Fitzpatrick,
John Le Barron,
Frederic B. Pullen,

Albert D. Cleveland,
Henry M. Tyler,
Luther Hapgood,
Simon D. Hiscock,
Rufus S. Downe,
Charles B. Jones,
James E. Murray,
John Little,
Calvin C. Smith,
Matthew R. Moore,
Amos Jones,
David N. McCleary,
Stephen E. Day,
John Collier,
Otis Dennison,
Warren A. Eaton,
Alonzo S. Harriman,
Thomas W. Penney,
Hugh McNamee,
William Evans, Jr.,
William Nickelson,
Lawrence Ducy,
Michael A. Dalton,
James Daily,
James S. Alexander,
John W. Skelley,
John Jackson.

Measurers of Wood and Bark.

John R. Taylor,	Benjamin J. Hoyt,
Francis H. White,	J. Henry Wyman,
John F. Brine.	

Pound-Keepers.

James Gilligan,	Thomas D. Cook,
George A. Marston.	

Fish Officers.

Thomas D. Cook,	Joseph W. Averill,
Andrew Sproul.	

Hay Weighers.

Timothy Sullivan,	Francis H. White,
William C. Brooks,	John F. Brine,
William H. Dodge,	Joshua S. Sanborn.

Coal Weighers.

James F. Jefferds,	William C. Brooks,
John F. Brine,	Jones Valentine,
Thomas McIntire,	Alfred H. Wellington,
William A. Hunnewell,	Joshua S. Sanborn,
J. Henry Wyman,	Malachi Mullen.

Weigher of Boilers and Heavy Machinery.

Joshua S. Sanborn.

Weighers.

Joseph W. Averill,	Henry Hooker,
Patrick Dunnigan,	Thomas Ralph,
Edmund Reardon,	George W. Wright,
James H. Reardon,	Joshua S. Sanborn.

Sealer of Weights and Measures.

John Cahill.

Inspector of Milk.

John Cahill.

Surveyors of Mechanics' Work.

William S. Barbour, William A. Mason,
John S. Pollard.

Measurer and Surveyor.

E. F. Young.

Inspector of Charcoal Baskets.

John Cahill.

Measurer of Grain.

John Cahill.

Inspectors of Junk Shops.

George H. Copeland, Amos Jones,
Warner W. Simonds.

Ward Officers.

Ward I.

WARDEN.

Henry R. Glover.

CLERK.

Francis L. Pratt.

INSPECTORS.

Joseph Williams,
Edmund Miles,
Nathaniel Munroe.

Ward II.

WARDEN.

Charles F. Thurston.

CLERK.

Harry B. Winnett.

INSPECTORS.

Walter H. Harding,

Charles E. Pierce,

George A. Leonard.

Ward III.

WARDEN.

Luther L. Parker.

CLERK.

Andrew Fogg.

INSPECTORS.

Augustus W. Fix,

Daniel Shaughnessy,

James J. Colman.

Ward IV.

WARDEN.

Charles L. Russell.

CLERK.

Benjamin F. Hastings.

INSPECTORS.

James F. White,

William H. Ackers,

Zephaniah H. Thomas, Jr.

Ward V.

WARDEN.

Francis M. Mason.

CLERK.

Francis H. White.

INSPECTORS.

Charles L. Fuller,

Henry K. Parsons,

Charles F. Fay.

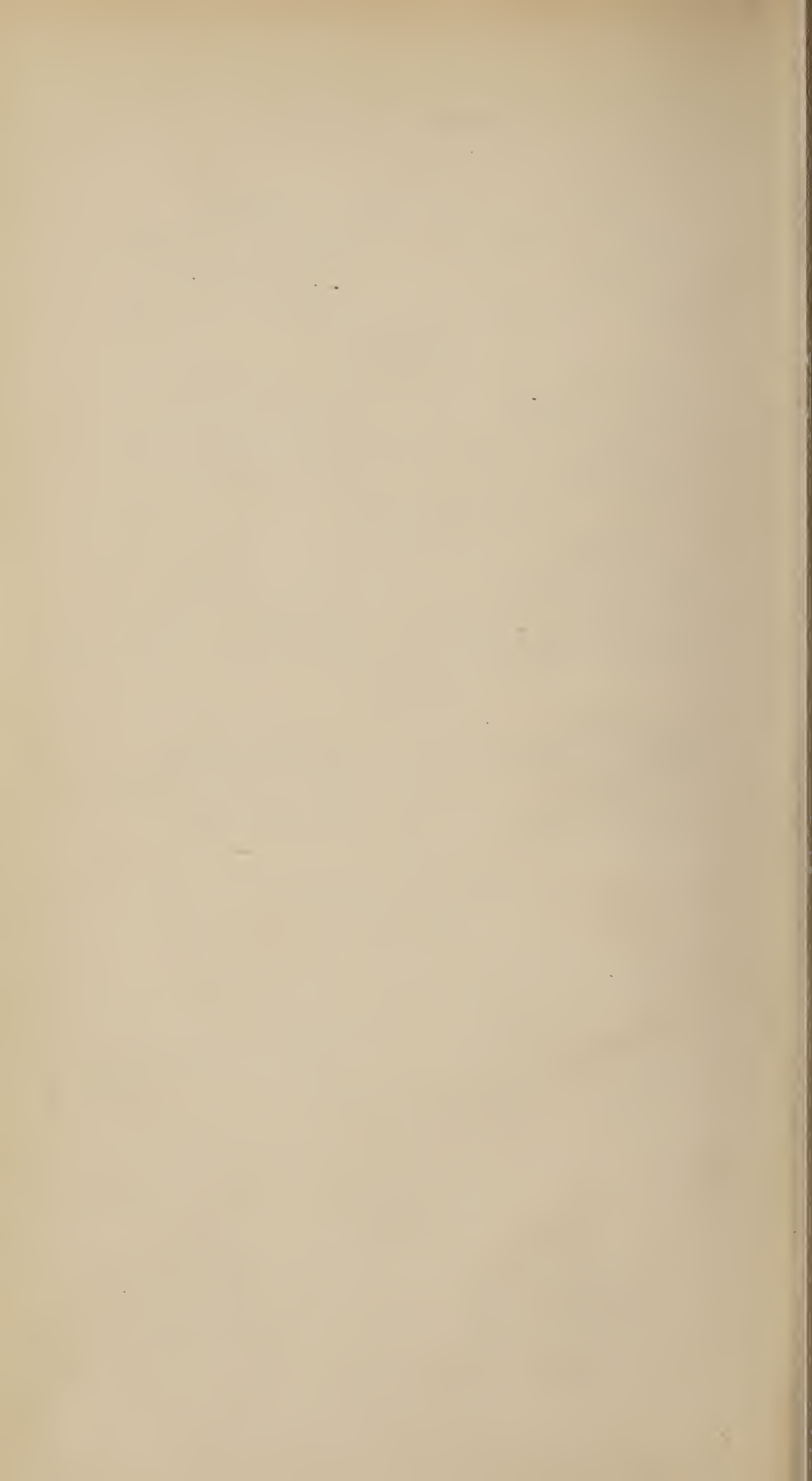


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